Funding Table to accompany the September 25, 2018 Research Report to Senate

Researcher	Department	Project Title	Amount
American Gastroenterological Association -- Research Foundation Grant			
Reed, David	Medicine	Diet-microbiome interaction modulates colonic nociceptive signalling in humanized IBS mouse model	$30,000
Association of Commonwealth Universities -- Gordon and Jean Southam Fellowship			
Lysaght, Rosemary	School of Rehabilitation Therapy	ACU-Southam Fellowship	5,000 GBP
Boehringer-Ingelheim -- Research Grant			
Johri, Amer	Medicine	Vision C+ feasibility project	$24,960
Canada 150 Research Chair			
van Anders, Sari	Psychology	Canada 150 Research Chair in Social Neuroendocrinology, Sexuality, and Gender/Sex	$2,450,000
Canada Foundation for Innovation -- JELF			
Jia, Zongchao	Biomedical and Molecular Sciences	An Enhanced Protein Preparation and Structure-Function Characterization Facility	$112,000
Canada Research Chair			
Fichtinger, Gabor	School of Computing	Tier 1 - Canada Research Chair in Surgical Data Science	$1,400,000
Jia, Zongchao	Biomedical and Molecular Sciences	Tier 1 - Canada Research Chair in Structural Biology	$1,400,000
Liu, Guojun	Chemistry	Tier 1 - Canada Research Chair in Materials Science	$1,400,000

Tienhaara, Kyla	School of Environmental Studies/Global Development Studies	Tier 2 - Canada Research Chair in Economy and Environment	$500,000
Canadian Academic Accounting Association -- CPA Canada-CAAA Special Topics Research Grant Program			
Malsch, Bertrand	Smith School of Business	Jumping on the Start-Ups Bandwagon: A Field Study on the Role of Accountants and Financial Information in Tech Start-Ups in Canada	$9,960
Canadian Institute for Advanced Research			
Chen, Mark	Physics, Engineering Physics and Astronomy	Gravity and the Extreme Universe Program, Senior Fellow	$20,100
Canadian Institutes of Health Research -- Operating Research Grant			
Goldie, Catherine	School of Nursing	Can early palliative care fo non-small cell lung cancer improve end-of-life outcomes and reduce cost in the real world? A population-based study	$74,853
CIHR -- Planning and Dissemination Grant			
Asai, Yuka	Medicine	International Food Allergy Consortium (InFAC) Meeting	$20,000
Bisung, Elijah	School of Kinesiology and Health Studies	Developing a research agenda to address the economic impacts of SLE: A planning meeting of key stakeholders to identify key intervention opportunities and establish a viable implementation and evaluation plan	$19,874
CIHR -- Project Grant			
Chivers, Meredith	Psychology	Tuning in and turning on: Neurocognitive correlates of responsive sexual desire in women with and without sexual difficulties	$455,175
Flanagan, Randall	Psychology	The role of episodic, declarative, and spatial memory systems in the planning and control of real-world action tasks	$753,525

Graham, Charles	Biomedical and Molecular Sciences	Effect of aberrant inflammation during pregnancy on subsequent risk of cardiovascular disease in mothers and their offspring	$1,036,575
Greer, Peter	Cancer Biology and Genetics	Calpain as a novel therapeutic target in breast cancer	$100,000
Koti, Madhuri	Biomedical and Molecular Sciences	Exploiting tumour innate immunity for sensitization of ovarian tumours to PD-L1 immune checkpoint blockade immunotherapy	$765,000
Magoski, Neil	Biomedical and Molecular Sciences	Mechanisms of long-term change to neuronal activity and secretion	$726,750
Parulekar, Wendy	Canadian Cancer Trials Group	A Phase II Single Arm Trial of elective volume adjusted de-escalation radiotherapy (EVADER) in patients with low-risk HPV-related oropharyngeal squamous cell carcinoma	$860,628
Scott, Stephen	Biomedical and Molecular Sciences	Impact of temporary lesions of frontoparietal cortex on feedback processing during voluntary motor actions	$963,900
Scott, Stephen	Biomedical and Molecular Sciences	Influence of visual and proprioceptive feedback during voluntary motor actions	$975,376
CIHR -- Strategy for Patient-Oriented Research (SPOR)			
Duffy, Anne	Psychiatry	Flourish student mental health research: Pathways to mental health and academic outcomes in undergraduate university students	$79,890
Canadian Pain Society -- 2018 Early Career Investigator Pain Research Grant			
Ghasemlou, Nader	Anesthesiology and Perioperative Medicine	Gene network control of spinal cord injury pain	$50,000
Iris the Dragon -- grant			
Stuart, Heather	Centre for Health Services and Policy Research	Include Me	$42,375
Kidney Foundation of Canada and CIHR -- Infrastructure and New Investigator Award			

Silver, Samuel	Medicine	Primary care physician involvement and quality of care for patients on dialysis	$130,000
Kingston Resuscitation Institute – Research Grant			
Bruder, Eric	Emergency Medicine	Identifying resuscitation expertise using the galvanic skin response	$14,300
Leukemia and Lymphoma Society of Canada – Operating Research Grant			
LeBrun, David	Cancer Biology and Genetics	Identifying non-coding driver mutations in diffuse large B-cell lymphoma	$200,000
Ministry of Transportation – Highway Infrastructure Innovation Funding Program			
Danby, Ryan	Environmental Studies	Developing Effective Measures to Mitigate Reptile Road Mortality on Ontario Highways	$66,250
Fam, Amir	Civil Engineering	Testing Bridge Decks Reinforced with Steel and GFRP Bars under Moving and Pulsating Loads using the First Moving Load Simulator in Canada	$57,000
Hesp, Simon	Chemistry	Impact of Asphalt cement modifiers on low temperature and fatigue cracking performance	$300,000
Hutchinson, Jean	Geological Sciences and Geological Engineering	Development of mobile terrestrial photogrammetry systems and data collection and processing methodologies for use in Ministry rockfall hazard management processed	$133,288
Mitacs – Accelerate			
Braun, Alexander	Geological Sciences and Geological Engineering	On Differential Glacial Isostatic Adjustment across the Grand Banks and the impact on hydrocarbon migration	$30,000
Lloyd-Ellis, Huw	Economics	New economic strategies for the design, analysis, and evaluation of international projects and development of teaching materials	$80,000
Martin, Patrick	School of Computing	Safe Harbour for Military, Veteran and Family Health Research Data	$120,000
Yao, Zhongwen	Mechanical and Materials Engineering	Investigation of In-Situ Flux Effect on Hydride Properties in Zr-2.5Nb Pressure Tubes in CANDU Reactors	$45,000
Zulkernine, Farhana	School of Computing	Advanced Analytics Initiative	$26,666
Mitacs – Accelerate International - to Canada			

Nediak, Mikhail	Smith School of Business	Customer Lifetime Value Prediction Engine: Neighborhood Link Inference and Conversation Prediction (Aliaksandr Nekrashevich)	$15,000
Mitacs Globalink Japan Society for the Promotion of Science – Summer Program			
Archer, Stephen	Medicine	Characterization of mitochondria dynamics and metabolism in Group 2 pulmonary hypertension rate left atrial stenosis model (Ping Yu Xiong)	$3,000
Crudden, Cathy	Chemistry	Synthesis of N-Heterocyclic Carbene-Modified Gold Nanoclusters and their Use in the Aerobic C-H Oxidation of Cyclohexane (Mina Narouz)	$3,000
Mitacs -- Globalink Research Award – Abroad			
Di Stefano, Philippe	Physics, Engineering Physics and Astronomy	Fractures in Scintillators (Thabet Marwa)	$6,000
Escobedo, Carlos	Chemical Engingeering	Crossed Surface Relief Gratings as Cost-Effective Sensors for Uropathogenic E. Coli Detection (Srijit Nair)	$6,000
Lafreniere, Melissa	Geography and Planning	SWAT modeling for permafrost watersheds (Nanor Momejian)	$6,000
Lamp, Nicolas	Faculty of Law	Delimitation of Extended Continental Shelves in the Arctic Ocean (Ekaterina Antsygina)	$6,000
Aronson, Kristan Tranmer, Joan (co-PI)	Cancer Research Insitute	Night shift work and multiple cancer sites: a systematic review and meta-analysis (Jennifer Ritonja)	$6,000
Mood Disorders Society of Canada – the Transitions to Communities Project			
Stuart, Heather	Centre for Health Services and Policy Research	Evaluation of the Transitions to Community Program	$19,668
Multiple Sclerosis Society of Canada operating Research Grant			
Ghasemlou, Nader	Biomedical and Molecular Sciences	Circadian control of pain and neuroinflammation in experimental autoimmune encephalomyelitis	$308,134

Muscular Dystrophy Association Research Grant			
Davies, Peter	Biomedical and Molecular Sciences	Calpain-3 stabilization to treat limb girdle Muscular Dystrophy type 2A (MDA577340)	$291,000
Natural Sciences and Engineering Research Council of Canada – Collaborative Research and Development Grant			
Ghahreman, Ahmad	Robert M Buchan Department of Mining	Heap leaching of gold with in-situ bacterial formation of the leach lixiviant. The case for the bio-formation of (1) cyanide lixiviant, and (2) thiosulfate lixiviant"	$260,000
Mechefske, Chris	Mechanical and Materials Engineering	Machine tool monitoring using data analytics and physics-based models	$200,000
Diederichs, Mark	Geological Sciences and Geological Engineering	Investigation, testing and verification in support of advanced EDZ modelling	$285,000
Kim, Il-Yong	Mechanical and Materials Engineering	Packaging and Topology Optimization and Product Family Design for Aerospace Structures Industry Partner: Bombardier Aerospace, $160,000	$320,000
Zeeb, Barbara Rutter, Allison (co-PI)	School of Environmental Studies	New Methods for Determining Petroleum Hydrocarbon(PHC) - Indusced Soil Toxicity with the Goal of Developing Appropriate, Site-Specific Soil Guidelines Industry Partner: Advisian, $114,000	$228,000
Ghahreman, Ahmad	Robert M Buchan Department of Mining	Stablility of gold-thiosulphate complexes during gold-thiosulphate leaching process Industry Partner: Barrick Gold Corporation, $219,336	$438,664
NSERC – Collaborative Research and Training Experience Program			
Brown, R Stephen with Pascale Champagne; Brian Cumming; Anna Majury; Neal Scott; DongMei Chen; Ana Maria da Silva; Diane Orihel	Beaty Water Research Centre	CREATE program for LEaders in wAter anD watERshed Sustainability (The LEADERS Project)	$1,650,000

Fraser, James with Cathy Crudden; Jun Gao; Hans-Peter Loock; Richard Oleschuk; Suning Wang; Carlos Escobedo; Stephen Hughes; Jean-Michel Nunzi; Kevin Stamplecoskie	Physics, Engineering Physics and Astronomy	CREATE - Materials for Advanced Photonics and Sensing	$1,649,185
NSERC – Connect Grant			
Greenspan, Michael	Electrical and Computer Engineering	Meet to discuss Computer Vision for Industrial Automation project	$1,155
NSERC – Discovery Grant			
Abdelaal, Fady	Civil Engineering	Long Term Performance of Bituminous and Modern Geomembrane Liners with High Interface Shear Strength	$100,000
Banfield, Bruce	Biomedical and Molecular Sciences	Remodeling of the Nuclear Membrane during Herpesvirus Assembly	$260,000
Beauchemin, Diane	Chemistry	New and Improved Methods for Risk Assessment of Food and Pharmaceutical Products Safety and for Forensic Analysis	$160,000
Beland, Laurent	Mechanical and Materials Engineering	Accelerated Atomistic Simulation of Dislocations in Nuclear Materials	$110,000
Bendena, William	Biology	Regulation of Physiology and Behaviour Through G-Protein Coupled Receptors of the Nervous System	$145,000
Blohm, Gunnar	Biomedical and Molecular Sciences	Credit Assignment in Movement Planning and Movement Execution	$200,000
Brachman, Richard	Civil Engineering	New Lifetime Prediction Techniques for Buried Polymer Pipes	$165,000

Bryant, Tim	Mechanical and Materials Engineering	Improved Friction and Wear Performance in Polymeric Components of Orthopaedic Bearings	$175,000
Cartledge, John	Electrical and Computer Engineering	Autonomous Constellation Shaping for Coherent Optical Fiber Communications	$175,000
Castelhano, Monica	Psychology	Scene Structure and Surfaces: Viewing Strategies Effects on Attention, Learning, and Memory	$200,000
Chan, Edmond	Biomedical and Molecular Sciences	Direct control of mitochondrial dynamics by regulatory amino acids	$185,000
Chin-Sang, Ian	Biology	Neuronal and Epidermal Signaling during C. elegans Morphogenesis	$220,000
Chippindale, Adam	Biology	Coevolution and the Origins of Reproductive Isolation	$140,000
Cordy, James	School of Computing	Software Analysis and Transformation Systems	$180,000
da Silva, Ana Maria	Civil Engineering	Meandering Morphodynamics and Related Fluvial Processes	$165,000
Diak, Bradley	Mechanical and Materials Engineering	Sculpting Energy Landscapes in Materials: Theory, Experiment and Application	$110,000
Dimitrov, Ivan	Mathematics and Statistics	Lie Algebras and Superalgebras: Representations and Structure Theory	$65,000
Docoslis, Aristides	Chemical Engineering	Rapid and Ultrasensitive (bio)chemical Detection with Dendritic Metallic Nanoparticle Structures	$160,000
Dunfield, Joshua	School of Computing	Programming Languages for Scalable Incremental Computation and Advanced Gradual Typing	$130,000
Ellis, Randy	School of Computing	Information Processing for Medical Image Understanding	$260,000
Eren, Suzan	Electrical and Computer Engineering	Transforming Hybrid Micro-Grids from Theory into Reality Through Innovative Power Electronics Technology	$110,000
Etemad, S Ali	Electrical and Computer Engineering	Towards Ambient Affective Intelligence and Interaction in Smart Environments	$115,000

Fallah, Vahid	Mechanical and Materials Engineering	Additive Manufacturing of Advanced Aluminum Alloys for Transportation Industry	$110,000
Fraser, James	Physics, Engineering Physics and Astronomy	Exploiting Light: From Quantum Nanophotonics to Advanced Fabrication	$135,000
Friesen, Victoria	Biology	Shifting Adaptations: Genomics of Adaptation and Speciation with Gene Flow	$235,000
Gazor, Saeed	Electrical and Computer Engineering	Cognitive Inference and Signal Processing in Adversarial Uncertain Environments	$155,000
Greenspan, Michael	Electrical and Computer Engineering	Efficient Robust Global Registration of 3D Data	$90,000
Grogan, Paul	Biology	The Next Step: Capitalizing on Long-term Experimental Manipulations to Understand and Predict Arctic Terrestrial Ecosystem Responses to Climate Warming	$180,000
Hashemi, Javad	School of Computing	Advanced Signal Processing Methods for Analysis of Fibrillatory Waves	$110,000
Hashtrudi-Zaad, Keyvan	Electrical and Computer Engineering	Fundamental Solutions for High-Fidelity Human Haptic Interaction	$175,000
Hesp, Simon	Chemistry	Mechanistic Studies of Asphalt Aging Aimed at the Discovery of Anti-aging Additives	$125,000
Jain, Praveen	Electrical and Computer Engineering	Flexible Power Electronics Converters for Future Energy Networks	$385,000
Jia, Zongchao	Biomedical and Molecular Sciences	Structural and Functional Insights into Alpha-Kinases and their Regulation	$310,000
Jiang, Wenyu	Mathematics and Statistics	Statistical Methods and Theory for Predictive Biomarker Study in Clinical Trails via Modeling and Analysis of Covariate Interactions	$100,000
Kani, Ernst	Mathematics and Statistics	Galois Representations, Moduli Spaces and Applications	$65,000
Linder, Tamas	Mathematics and Statistics	Adaptive and Network-Aware Source Coding	$280,000

Loewen, Michele	Biomedical and Molecular Sciences	Fungal Pheromone Receptors in Host-Pathogen Interactions	$160,000
Martin, Paul	Biology	Interactions Among Closely-Related Species and the Evolution of Biodiversity	$160,000
Meunier, Louise	Chemical Engineering	Physiologically-relevant bioaccessibility measurements of inorganic contaminants	$100,000
Mingo, James	Mathematics and Statistics	Free Probability and Random Matrices	$75,000
Mulligan, Ryan	Civil Engineering	Protecting Canada's Coasts from Extreme Waves and Water Levels	$130,000
Nelson, William	Biology	The Impact of Life-History Trait Evolution on the Stability of Population Dynamics	$160,000
Parent, J Scott	Chemical Engineering	Latent Antioxidants for Environmentally Responsible Polymer Formulations	$130,000
Persaud, Suraj	Mechanical and Materials Engineering	High Temperature Oxidation of Metals	$110,000
Pilkey, Keith	Mechanical and Materials Engineering	Role of Damage in the Failure of Heterogeneous Materials	$110,000
Plaxton, William	Biology	The Functional Organization and Control of Plant Carbohydrate and Phosphate Metabolism	$235,000
Prakash, Ravi	Electrical and Computer Engineering	Development of Organic Transistor Based Smart, Low-cost and Disposable Chemical and Biological Sensor Devices	$110,000
Ramsay, Bruce	Chemical Engineering	Biodegradation of High Molecular Weight Alkanes by the Microbiome of Galleria Mellonella Larvae	$100,000
Regan, Sharon	Biology	Molecular Regulation of Bioenergy and Bioremediation in Trees	$125,000
Roth, Mike	Mathematics and Statistics	Local Positivity and Diophantine Applications	$100,000
Rusak, James	Biology	Disturbance-driven Changes in Ecosystem Variability: A New Tool for Understanding Ecological Dynamics	$120,000
Sabbagh, Mark	Psychology	Mechanisms of Conceptual Change in Preschool-Aged Children	$125,000
Salomaa, Kai	School of Computing	Finite-state Machines and their extensions: Foundational Questions and Applications	$180,000

Scott, Stephen	Biomedical and Molecular Sciences	Use of Sensory Feedback for Voluntary Control	$550,000
Snedden, Wayne	Biology	Calcium Signal Transduction in Arabidopsis	$165,000
Wang, Suning	Chemistry	Photoresponsive Organoboron Compounds and Chemistry	$625,000
Yuksel, Serdar	Mathematics and Statistics	Stochastic Control: Decentralization, Robustness and Learning, and Information Constraints	$280,000
Zhang, Shetuan	Biomedical and Molecular Sciences	Elucidating the Role of SI and N-terminus in the Trafficking and Regulation of Kv1.5 Potassium Channels	$32,000
Zhu, Xiaodan	Electrical and Computer Engineering	Exploring Better Distributed Representation and Composition Models for Semantics	$245,000
Zulkernine, Farhana	School of Computing	A Smart Big Data Analytics and Knowledge Management Framework	$115,000
NSERC – Discovery Grants Accelerator Supplement			
Zhu, Xiaodan	Electrical and Computer Engineering	Exploring Better Distributed Representation and Composition Models for Semantics	$120,000
Castelhano, Monica	Psychology	Scene Structure and Surfaces: Viewing Strategies Effects on Attention, Learning, and Memory	$120,000
Yuksel, Serdar	Mathematics and Statistics	Stochastic Control: Decentralization, Robustness and Learning, and Information Constraints	$120,000
			NSERC -- Engage
Marshall, Joshua	Mining Engineering	Design requirements and operational concepts for a robotic underground scissor bolter	$24,700
Greenspan, Michael	Electrical and Computer Engineering	Object recognition in bin picking	$25,000
Rival, Dave	Mechanical and Materials Engineering	Characterization of novel catamaran hydrodynamics	$25,000
Surgenor, Brian	Mechanical and Materials Engineering	Automation of the sanding process for wood products	$20,000

NSERC – Northern Research Supplement			
Grogan, Paul	Biology	The Potential Role of Phosphorus Availability as a Critical Limitation on Plant Growth and Community Structure across the Canadian Low Arctic	$82,200
NSERC – PromoScience Supplement			
Compeau, Scott	Faculty of Engineering and Applied Science	Science Odyssey	$5,000
Howard, Melanie	Faculty of Engineering and Applied Science	Science Odyssey	$4,943
NSERC – Research Tools and Instruments			
Champagne, Pascale	Civil Engineering	Advanced Molecular Tools for Characterizing Microbial Structures, Processes and Interfaces in Engineered and Natural Environmental Systems	$104,008
Daymond, Mark	Mechanical and Materials Engineering	In situ SEM/FIB Nanomechanical Testing System	$150,000
Gallivan, Jason	Biomedical and Molecular Sciences	MRI Head Coil for Neuroimaging Studies of Non-human Primates	$85,313
Lafreniere, Melissa	Geography and Planning	Breaking Down the Permafrost Carbon Feedback Enigma: Characterizing the Composition and Lability of Dissolved Organic Carbon (DOC) According to Size Fractions	$93,772
Mousavi, Parvin	School of Computing	A System for Multi-Parametric Real-Time Analysis of Tissue Properties	$150,000
Rival, Dave	Mechanical and Materials Engineering	A High-Speed Laser for Lagrangian Particle Tracking in Unsteady Flows	$148,000
Take, Willian	Civil Engineering	Resilient Linear Infrastructure Through Dynamic Distributed Fibre Optic Strain Sensing	$150,000
Networks of Centres of Excellence – Kids Brain Health Network - Research Grant			

Reynolds, James	Biomedical and Molecular Sciences	Diagnosis, intervention and family support: Three pillars to improving kids brain health	$66,000
Graham, Nicholas	School of Computing	The knowledge translation core: Maximizing the impact of research and training in neurodevelopment disorders	$5,000
Nunatsiavut Government – Weston Family Award for Research in the Torngat Mountains			
Way, Robert	Geography and Planning	Torngat Permafrost Project	$46,687
Psychology Foundation of Canada			
Hollenstein, Tom	Psychology	Changes in Emotion Regulation strategy use and success across adolescence: exploring the role of perceived stress and relationship quality (Kalee DeFrance)	$1,500
Social Sciences and Humanities Research Council of Canada – Individual Partnership Engage Grants			
Marshall, Carrie Anne Rosemary Lysaght; Susanne Murphy (co-PIs)	Rehabilitation Therapy	Case study and evaluation of an integrated supportive living model for formerly homeless persons in a rural context	$25,000
SSHRC – Knowledge Synthesis Grant			
Ivus, Olena	Smith School of Business	Canada and UK Trade - Trade, intellectual property and innovation: policy implications for the Canada-UK relationship after Brexit	$11,258
SSHRC -- Partnership Grant Stage 1			
McDonald, David	Global Development Studies	Public water/public banks	$20,000
DeLuca, Chris Amanda Cooper; Liying Cheng (co-Pis)	Faculty of Education	Maximizing our investment in Canadian education: strengthening student outcomes through a national research-practice network for teacher professional learning	$19,900
SSHRC – Partnership Development Grant			

Dacin, Tina	Smith School of Business	Social entrepreneurship: increasing access to opportunities for Indigenous entrepreneurs	$198,625
St. Jude Medical Research Grant			
Baranchuk, Adrian	Medicine	Pacemaker cybersecurity retrospective chart review study.	$9,950
W. Garfield Weston Foundation Fellowship – Wildlife Conservation Society Canada			
Cumming, Brian	Biology	Nature and Timing of the Holocene Thermal Maximum in Northeast Ontario (Cale Gushulak)	$8,000
Women's College Hospital – Women's Xchange			
Auais, Mohammad	School of Rehabilitation Therapy	A home-based physiotherapy program for patients with hip fractures: A sequence	$15,000