Faculty Grants Funding 2020-2022

Bartlett, E

- 2018-2020
  RSNA Education Scholar Grant (Research Award)
  Title: North American Assessment of Early Emergency Radiology Competence Via an Online Simulator with PGY2 Diagnostic Radiology Residents
  Amount: $62,856 USD
  Principal Investigator: Bartlett, E

Berger, F

- 2021-2025
  Ministry of Health and Long-Term Care (MOHLTC)
  Title: AHSC AFP IF Grant; Identifying COVID-19 infection on chest radiography based on artificial intelligence
  Amount: $100,000 CAD
  Principal Investigators: Berger, FH; Oikonomou, A
  Co-Investigator: Mohammadi, A; Afshar, P; Tyrrell, P; Moody, A; Daneman, N; Chan, A K; Kha, LC; Berger, FH; Naderkhani, F; Plataniotis, K

- 2020-2022
  American Society of Emergency Radiology
  Title: ASER-ACR-NHPI Grant; Mass Casualty Incidents: Optimizing the Radiology Response
  Amount: $40,000 USD
  Principal Investigator: Bernstein, MP
  Collaborators: McMenamy, J; Baxter, A; Berry, C; Frangos, S; Kochkine, S; Bukur, M; Berger, FH; Chong, S

- 2018-2022
  Ministry of Health and Long-Term Care (MOHLTC)
  Title: AHSC AFP IF Grant; Understanding and Addressing contributors to repeat Imaging in trauma transfer patients
  Amount: $90,436 CAD
  Principal Investigators: Berger, FH and McDonald, A.
  Collaborators: Nathens A; Nagels J; Glanc P; Aviv R et al

Bilbily, A

- 2020
  Supercluster Covid-19 Grant
  Amount: $1,300,000
  Principal Investigator

- 2020
  Amgen Osteoporosis Grant
  Amount: $150,000
  Co-Principal Investigator
Branson, H
• 2020-2024
  Canadian Institutes of Health Research
  Title: Healthy brain growth in preterm children for optimal function: do males and females differ?
  Amount: $910,352
• 2020-2022
  Feiga Bresver Catalyst Grant. Centre for Brain & Mental Health Research Committee.
  Title: Quantitative Perfusion Imaging for Autoimmune Encephalitis Diagnosis and Monitoring.
  Amount: $98,694.72
  Co-Investigators: Branson, HM; Brown, RA; Longoni, G; Uludag, K; Yeh EA.

Chavhan, G
• 2020-2022
  Canadian Donation and Transplantation Research Program (CDTRP)
  Title: Bilateral Anterior Thigh Thickness in Children with and without Liver Disease: A Feasibility Study
  Amount: $30,000 CAD
  Principal Investigator: Vicky Lee Ng
  Collaborators: Binita, K; Chavhan, G.

Cheung, HMC
• 2022-2026
  Department of Medical Imaging Research Grants.
  Title: MRI phenotype of colorectal liver metastases as a predictor of mutational profile and long-term outcomes.
  Amount: $100,000
  Principal Investigator
  Collaborator(s): Patel C, Martel A, Seth A, Amemiya Y, Reynolds D, Lim C, Yan C.
• 2022-2026
  Department of Medical Imaging Research Grants
  Title: Utility of a multiparametric prostate MRI AI-derived (MAI)-score of when to biopsy (and when to avoid biopsy) of PI-RADS category 3 and 4 lesions.
  Amount: $100,000
  Principal Investigator: Christopher Lim.
  Collaborator(s): Yan C, Cheung H, Patel C, Reynolds D, Lim A
• 2021-2023
  Society of Abdominal Radiology (SAR) Wylie J. Dodds Research Award
  Title: MRI risk score for colorectal liver metastases.
  Amount: 15,000 USD
  Principal Investigator
  Collaborator(s): Martel A, Patel C.
Cheyne, D
- 2020-2025
  CIHR Project Grant
  Title: Investigating the neural basis of motor and cognitive disabilities following childhood stroke
  Amount: $749,000
  Co-Investigator
- 2019-2025
  NSERC Discovery Grant
  Title: "Understanding the neural basis of motor development in early childhood
  Amount: $198,000
  Co-Investigator
- 2018-2024
  CIHR Project Grant
  Title: Non-invasive imaging of sensorimotor plasticity following cranial nerve repair
  Amount: $673,200
  Co-Investigator

Coblentz, A
- 2014-Present
  Seed Grant Committee Diagnostic Imaging, The Hospital for Sick Children
  Title: Adverse Effects of Radiation During IR Procedures- A Step Towards Prevention.
  Amount: $4,000 CAD
  Principal Investigator
- 2012-Present
  The Society for Pediatric Radiology. SPR Research and Education Foundation.
  Title: Testing the use of the emerging y-H2AX biomaker for quantifying DNA damage from pediatric interventional procedures involving ionizing radiation- the first step in assessing the use of DNA protective agents in children.
  Amount: $10,000 CAD
  Principal Investigator
- 2012-2020
  Canadian Research Foundation
  Title: A Double Blind, Randomized Controlled Trial Examining the Efficacy of the use of tissue plasminogen activator (tPA) in intra-abdominal collections in children – a prospective study
  Amount: $7,500 CAD
  Principal Investigator
  Collaborators: Gibson, C. Amaral, J. Langer, J.

Colak, E
- 2022
  St. Michael's Hospital Medical Services Association Innovation Fund.
  Title: Integrated pipeline for real time triage of patients suffering traumatic brain injury.
  Amount: $162,838.68
2021
St. Michael's Hospital Medical Services Association Innovation Fund.
Title: Automated Detection and Classification of Pulmonary Embolism on Computed Tomography Pulmonary Angiography with Clinical Workflow Integration.
Amount: $50,000

2020
St. Michael's Hospital Medical Services Association Innovation Fund.
Title: Automated Detection and Classification of Intracranial Hemorrhage on Head Computed Tomography with Clinical Workflow Integration.
Amount: $44,281.61

Curpen, B
2020-2025
CIHR Project Grant
Title: Using MRI to develop a personalized risk-based breast cancer screening strategy.
Amount: $925,650 CAD
Principal Applicants: Anne Martel & Jennifer Brooks

Ditkofsky, NG
2020-2021
AFP Innovation Award
Title: Automated Detection and Classification of Intracranial Hemorrhage on Head Computed Tomography with Clinical Workflow Integration
Amount: $22,468.01

Doria, AS
2021-2024
Canadian Institutes of Health Research (CIHR)
Title: Machine Learning Based Craniosynostosis Triaging System
Amount: $535,501
Co-Investigators: Doria A (Co-Investigator), Singh D, Brudno M

2021-2023
Temerty Innovation Grants
Title: Machine Learning-Based Innovation in Ocular Pediatric Assessment Using Point-of-Care Ultrasound
Amount: $199,500

2021-2022
Childhood Arthritis and Rheumatology Research Alliance (CARRA)
Title: Elastography Ultrasound in Localized Scleroderma (Morphea): A Prospective, Longitudinal, Multicentric Pilot Study
Amount: $62,808
Co-Investigators: Laxer R (Toronto, ON), Li Suzanne (Hackensack, NJ), Liebling M (Hackensack, NJ),
Levin T (Montefiori, NY), Vasque N (Montefiori, NY), Torok K (Pittsburgh, PA), Squires J (Pittsburgh, PA)

- 2020-2023
  Radiological Society of North America – Education Development Grant
  Title: Towards Enhancing the Value of Imaging by Communicating with Data: Developing the Next Generation of LQ2 (Qualitative-Quantitative Leaders)
  Amount: $284,000
  Co-Investigators: Khalvati F, Meaney C

- 2020-2021
  SickKids Foundation
  Title: Towards Implementation of Horizontal Workflow of SickKids’ Systems as a Catalyst for Precision Child Health
  Amount: $40,000

Dowdell, T

- 2017-2020
  Canada’s Academic Health Sciences Centres (AHSC), AHSC AFP Innovation Fund Multi Year Project
  Title: Developing Educational Materials for Patients and Providers on Medical Imaging Tests and Ionizing Radiation.
  Collaborator

Dunkley, BT

- 2022
  Innovation for Defence Excellence and Security (IDEaS) Program, Department of National Defence
  Title: Leveraging advanced brain imaging and analytics for diagnostics and precision medicine in Canadian Military and Veteran PTSD
  Amount: $450,000,
  Nominated Principal Investigator

- 2021
  Mitacs Accelerate, Canada
  Title: Efficacy of end-to-end digitized eye movement for trauma desensitization on Savyn’s app for PTSD symptoms
  Amount: $15,000,
  Nominated Principal Investigator

- 2021
  Centre for Brain and Mental Health Catalyst Grant, Hospital for Sick Children, Toronto, Canada
  Title: Addressing autism spectrum disorder heterogeneity for precision care: symptom characterization and subtyping using neural activity profiling and artificial intelligence
  Amount: $100,000,
  Nominated Principal Investigator: Dunkley, BT, Zhang, J, Safar, K, Taylor, MJ, Anagnostou, E.

- 2021
  Industry Partnership study
  Title: MEG for the assessment of mTBI and PTSD
Amount: $63,000
Nominated Principal Investigator (Miller, SP, Dunkley, BT, Chau, V, Guo, T, Ly, L, Sananes, R, Seed, M, Williams, T.)

- 2021
  CIHR Project Scheme: Spring Rounds 2021, Canada
  Title: Neurodevelopmental function and neural oscillations in children born with congenital heart disease: the roles of brain injury, brain growth and heart function
  Amount: $757,000
  Principal Investigator

- 2021
  CIHR Project Scheme: Spring Rounds 2021, Canada
  Title: Characterising brain network dynamics in very young children with autism using OPM-based MEG
  Amount: $1.12 million,
  Role: Co-Investigator: Taylor, MJ, Dunkley, BT, Safar, K, Brian, J, Anagnostou, E., Kadis, D

- 2021
  CIHR Project Scheme: Fall Rounds 2020, Canada
  Title: Understanding cognitive impairment in children with sickle cell anemia: Linking cerebrovascular impairment to brain activation
  Amount: $1,350,000
  Co-Investigator: Kassner, A, Mabbott, DM, Dlamini, N, Dunkley, BT, Janzen, L, Odame, I, Williams, S.

- 2020
  NIH R01, USA
  Title: Neurological Outcome of Glycemia in Neonatal Encephalopathy
  Amount: $1,400,000
  Co-Investigator: Tam, EWY, Chau, V, Dunkley, BT, Ly, L, Mamak, E, Moore, A, Pinchefsky, E, Widjaja, E, Williams, T & Vanhatalo, S.

Ertl-Wagner, B

- 2021-2022
  Canadian Institutes of Health Research (CIHR)
  Title: Neurobiological Mechanisms of Reading Disabilities
  Amount: $1,185,750 CAD
  PI: Barr, C.
  Co-Applicants(s): Kadis D, Ertl-Wagner B, Singh K, Tripathy S, Guger S, Kerr E, Strug L, McIntosh AR

- 2021-2022
  Canadian Cancer Society (CCS)/ Canadian Institutes of Health Research (CIHR)/ Brain Canada Foundation (BC) Spark Grant: Novel Technology Applications in Cancer Prevention and Early Detection (SPARK-21).
  Title: Detection and Prevention of Hypermutant Glioma in Children and Young Adults.
  Amount: $149,878 CAD
  Co-Applicant
  PI: Tabori.
  Collaborator(s): Bouffet E, Hawkins C, Khalbati F, Lapriere N.

- 2021-2022
Canadian Cancer Society (CCS)/ Canadian Institutes of Health Research (CIHR)/ Brain Canada Foundation (BC) Spark Grant: Novel Technology Applications in Cancer Prevention and Early Detection (SPARK-21).

Title: Early Detection and Novel Stratification of Pediatric Low Grade Gliomas by MRI-Based Artificial Intelligence.

Amount: $150,000 CAD
Co-Applicant
PI: Khalvati F.
Collaborator(s): Bouffet E, Hawkins C, Tabori U, Wagner M

• 2021-2022
CHASE Grant
Title: Artificial intelligence to enhance neuroradiological assessment of brain injury and development in preterm neonates.
Amount: $50,000 CAD
Co-Applicant
PI: Miller S.
Collaborator(s): Wagner M, Shroff M, Guo T

• 2020-2021
CRF/CHAR Research Grant
Title: BRAIN-REST. Brain MRI result forecast model.
Amount: $25,000 CAD
Principal Investigator
Collaborator(s): Wagner M, Brudno M, Goldenberg A, Lee W, Shroff MM.

• 2019-2021
SPR Research and Education Foundation Young Investigator Award.
Title: Artificial intelligence-based neuroradiological assessment of brain injury and development in preterm neonates.
Amount: $50,000 USD
Co-Principal Investigator
Co-PI: Shroff MM
Collaborator(s): Wagner M, Guo T, Brudno M, Goldenberg A, Lee W, Miller S.

• 2017-2020
Graduiertenkolleg Advanced Medical Physics for Image-Guided Cancer Therapy. GRK 2274.
Title: Robust evaluation of IVIM- and DCE-MRI for perfusion quantification.
Amount: 166.350€
Principal Investigator

• 2016-2020
Deutsches Zentrum für Lungenforschung (DZL)
Amount: 1.399.580€
Co-Principal Investigator.
Collaborator(s): Reiser M, Dinkel.

Faingold, R
• 2021-2023
CARRA-Arthritis Foundation Small Grant Application Title: Elastography Ultrasound in Localized Scleroderma (Morphea): A Prospective, Longitudinal, Multicentric Pilot Study
Amount: $49,751
Co-Investigator
Doria A, Laxer R,
- 2022-2025
Funding Agency: The Physician Services Incorporated Foundation
Title: Renal ultrasound after first febrile urinary tract infection in hospitalized children: reducing overdiagnosis and cascade effects
Amount: $250,000
Co-Investigator
Principal Investigator: Sanjay Mahant Co-PI: Peter Gill

Freitas, V
- January 2020
The JDMI Academic Incentive Fund
Title: . Best supplemental screening modality in patients with dense breast and negative mammography
Amount: $10,000
Principal Investigator

August 2019-July 2022
Canadian Cancer Society
Title: Incorporating advanced capabilities in best-in-class PEM system for improved clinical outcomes
Amount: $448,800
Co-Investigator
Principal Investigator: Alla Resnik

Glanc, P
- 2022-2023
AFP Innovation Fund
Title: Quality Implementation and Validation of O-RADS Ultrasound Risk Stratification and Management System
Amount: $98,940.00
Principal Investigators: Hack K, Bouchard-Fortier G
- 2022
Department of Medical Imaging Research Grants 2022-2025, Sunnybrook Health Science Center
Project Title: Quality Implementation and External Validation of O-RADS Ultrasound Risk Stratification and Management System
Amount: $100,000 across 5 years.
Project Lead(s): Hack K and Glanc P
Gray, B

- April 2019-March 2021
  Canada’s Academic Health Sciences Centres, Grant
  Title: Developing Educational Materials for Patients and Providers on Medical Imaging Tests and Ionizing Radiation Part II, Development and Validation of Draft Materials.
  Amount: $28,898.41 CAD
  Principal Investigator
  Co-Investigators: Weyman, K., Dowdell, T

- April 2017-March 2020
  Canada’s Academic Health Sciences Centres (AHSC), AHSC AFP Innovation Fund Multi-Year Project
  Title: Developing Educational Materials for Patients and Providers on Medical Imaging Tests and Ionizing Radiation
  Amount: $44,587.60 CAD
  Principal Investigator
  Co-Investigators: Weyman, K., Dowdell, T

Guimaraes, L

- 2017-Present
  Academic Health Sciences Centre AFP Innovation Funds
  Title: Comparison of Volume-Mode 2-Rotation kV-mA Switching Dual Energy Computer Tomography (CT) and of CT Subtraction Imaging with Magnetic Resonance Imaging for the identification of enhancing septa and mural nodules in cystic pancreatic lesions: a change in paradigm
  Amount: $83,720 CAD
  Principal Investigator
  Collaborators: Rogalla P, Jhaveri K, Gallinger S, Serra S

- 2017-Present
  Canon Medical Systems.
  Title: Low and Ultra-low Dose CT enterography with Forward Projected Model-Based Iterative Reconstruction: a Change in Crohn’s Disease Imaging Paradigm
  Amount: $15,000 CAD
  Principal Investigator
  Collaborators: Rogalla P

Hack K

- 2022
  Sunnybrook AFP Innovation Fund Committee – Sunnybrook Health Sciences Centre
  Amount: $97,920.00
  Title: Quality Implementation and External Validation of O-RADS Ultrasound Risk Stratification and Management System
  Co-Principal Investigator

- 2022
  Sunnybrook Department of Medical Imaging – University of Toronto
  Amount: $100,000
Title: Quality Implementation and External Validation of O-RADS Ultrasound Risk Stratification and Management System
Co-Principal Investigator

Haider, M
- 2009-2023
  Ontario Institute of Cancer Research (OICR)
  Title: OICR Investigator Award
  Award. 1,250,000 CAD/5 year block
  Principal Investigator

Hanneman, K
- 2022–2026
  Canadian Institutes of Health Research (CIHR) Project Grant.
  Title: International study of Artificial Intelligence-based Diagnosis of Cardiomyopathy using cardiac MRI (AID-MRI).
  Co-Investigator.
  Principal Investigator: White J.
  Amount: $1,410,000
- 2022
  Canadian Radiological Foundation (CRF) and the Canadian Heads of Academic Radiology (CHAR) Fund Award.
  Title: Myocardial Injury and Outcomes Following COVID-19 Vaccination (MYOVAX Study).
  Principal Investigator.
  Amount: $10,000 CAD.
- 2021 – 2022
  Academic Incentive Fund Award, Joint Department of Medical Imaging.
  Title: Myocardial Injury and Outcomes Following COVID-19 Vaccination (MYOVAX Study).
  Principal Investigator.
  Amount: $39,960 CAD.
- 2021 – 2023
  JDMI AI Centre Translational Projects.
  Title: Clinical Integration and Validation of an AI System to Predict Cardiac Risk from Imaging.
  Principal Investigator.
  Co-Principal Investigator: McIntosh C
- 2021 Apr – 2024 Mar
  Ontario Academic Health Sciences Centre Alternate Funding Plan (AHSC AFP) Innovation Fund.
  Title: Artificial Intelligence for Scar Quantification on Cardiac MRI.
  Co-Principal Investigator.
  Co-Principal Investigators: Tsang W and Wang B.
  Amount: $116,597
- 2021 – 2026
Canadian Institutes of Health Research (CIHR) Project Grant.
Title: Fabry cardiomyopathy: Identification of Early myocardial Structural and Tissue Abnormalities using multiparametric MRI (FIESTA-MRI).
Principal Investigator.
Amount: $726,750 CAD.

- 2020 – 2021
  Peter Munk Cardiac Centre Innovation Fund, University Health Network.
  Title: In-Silico Surgical Planning for Personalized Ascending Aortic Repair to Reduce Distal Dissections (SPAReD2).
  Co-Investigator.
  Principal Investigator: Chung, Jennifer.
  Amount: $74,836 CAD.

- 2020 – 2022
  Academic Incentive Fund Award, Joint Department of Medical Imaging.
  Title: Assessment of COVID-19 Related Heart Injury Using Combined Simultaneous Cardiac PET/MRI.
  Principal Investigator.
  Amount: $38,300 CAD.

- 2020 – 2021
  Ted Rogers Centre for Heart Research (TRCHR) Innovation Fund – COVID-19 Award.
  Title: Cardiovascular disease and outcomes among patients with SARS-CoV-2 infection during hospital admission and post discharge: The COVID study.
  Co-Principal Investigator.
  Co-PIs: Thavendiranathan P and Howe K.
  Amount: $150,000 CAD.

- 2020 – 2020
  Genetic Aortic Disorders Association Canada Research Grant.
  Title: Cardiac MRI biomarkers of myocardial remodeling and genotype phenotype correlations in hereditary thoracic aortic disorders.
  Co-Investigator.
  Principal Investigator: Karur, Gauri.
  Amount: $21,820 CAD

- 2019 – 2021
  Title: Identifying antimalarial-induced heart damage in systemic lupus erythematosus. Lupus Canada Catalyst Grant.
  Co-Investigator.
  Principal Investigator: Urowitz, Murray.
  Amount: $35,000 CAD

Heyn, C
- 2018-2022
  W. Garfield Weston Foundation; Early Phase Clinical Trials: Canada 2018 Program
  Title: Phase 2a Trial of MR-guided Focused Ultrasound in Mild-to-Moderate Alzheimer’s Disease
  Amount: $1,495,500 CAD
  Co-Applicant
- 2017-2020
Sick Kids Foundation (SKF); New Investigator Grant
Title: Brain Energy Metabolism and Heat Production in Adolescents with Bipolar Disorder
Amount: $277,096 CAD
Principal Investigator

Houbois, CP
- 2020 – 2021
  German RESEARCH FOUNDATION; Project number 419344766;
  Title: Cardiac Magnetic Resonance Imaging in Early Detection and Therapy Monitoring of Myocardial Cardiotoxicity under Chemotherapy.
  Amount: 68.000 Euro ($100.000 CAD)
  Principal Investigator
  Co-Investigators: Wintersperger B, Thavendiranathan P

Jhaveri, K
- 2020-2021
  Paul Helliwell Foundation
  Development and Validation of a Predictive Clinical Decision Making Algorithm using AI for the Management of Patients with Iron Overload on Chelation Therapy.
  Principal Investigator
  Amount: $110,000CAD, $55,000 per year
- 2016 - 2021
  CIHR
  Non-operative management for locally advanced rectal cancer.
  Co-Investigator
  PI: Erin Kennedy.
  Amount: 530,000 CAD

Jimenez-Juan, L
- 2018-Present
  Private Donor
  Title: Non-invasive evaluation of blood flow hemodynamics in coronary artery disease
  Amount: $60, 000 CAD
  Co-Principal Investigator
  Co-Principal Investigator: Triverio P

Jong, R
- 2018-2021
  U.S. Army Medical Research and Materiel Command
  Title: Molecular and Imaging Biomarkers for Precision Therapy of Breast Cancer
  Amount: $448, 152
  Co-Applicant
  Co-Applicants: Cheung A, Slodkowska E, Pritchard K, Troester M
  Principal Investigator: Yaffe, MJ
- 2017-2025
National Cancer Institute 2017-2025
Title: Digital Tomosynthesis Mammography and Digital Mammography in Screening patients for Breast Cancer (TMIST) MAC.22 (ECOGACRIN EA1151)
Amount: $1,000,000 USD
Site Principal Investigator and Qualified Investigator

• 2017-2025
National Cancer Institute
Title: Tomosynthesis Mammographic Imaging Screening Trial – Lead-in
Amount: $2,100,000 USD
Co-Investigator and Sunnybrook Site Principle Investigator

Kachura, J.R.
• 2016-Present
Celson
Title: OPTIMA Trial: A Phase III, Randomized, Double Blind, Dummy-Controlled Study of ThermoDox® (Lyso-Thermosensitive Liposomal DoxorubicinLTLD) in Hepatocellular Carcinoma (HCC) using standardized Radiofrequency Ablation (RFA) treatment time ≥ 45 minutes for solitary lesions ≥ 3 cm to ≤ 7 cm
Amount: $42,000
Principal Site Investigator

Khalvati, F.
• 2021 – 2026
NSERC Discovery Grant.
Title: Attention networks and optimized deep learning architectures for cancer diagnosis and prognosis in medical imaging.
PI: Khalvati, F.
Principal Investigator.
Amount: $140,000 CAD.

• 2021 – 2022/01
Amount: $150,000 CAD.
PI: Khalvati, F. Co-PI: Bouffet, E.

• 2021 – 2022
Amount: $149,878 CAD
Co-Applicant.

• 2021/01 – 2021/12
Associated Medical Services Small Grant in Compassion and Artificial Intelligence.
Title: Artificial Intelligence for compassionate healthcare delivery in Diagnostic Imaging.
Amount: $20,000 CAD.
Principal Investigator.
PI: Khalvati, F. Co-PI: Lee, W. Collaborators: McCradden, M., Karmali, K.

- 2020/09 – 2021/08
  NSERC Alliance Grant.
  Title: Rapid reagent-free detection of COVID-19 in exhaled breath condensate using ultra-sensitive multi-wavelength SERS nano-gratings.
  Amount: $50,000 CAD.
  Collaborator.

- 2020 – 2021
  SickKids Foundation Precision Child Health Catalyst Grant Program.
  Title: Towards implementation of horizontal workflow of SickKids’ systems as a catalyst for precision child health.
  Amount: $40,000 CAD.
  Co-Investigator.

- 2020 – 2023
  RSNA Education Development Grants.
  Title: Towards enhancing the value of imaging by communicating with data: Developing the next generation of LQ2 (Qualitative-Quantitative Leaders).
  Amount: $225,000 US.
  Co-Investigator.
  PI: Doria, A. Co-I: Khalvati, F., Goldenberg, A.

- 2020/04 – 2023/03
  HiSilicon Grants. Huawei Technologies Canada.
  Title: Novel Artificial Intelligence (AI) solutions for improved image understanding tasks.
  Amount: $296,500 CAD.

Principal Investigator.

- 2020/04 – 2025/03
  Chair in Medical Imaging and Artificial Intelligence.
  The Hospital for Sick Children and SickKids Foundation.
  Principal Investigator.
  PI: Khalvati, F.
  Amount: $250,000 CAD.

Khalili, K

- 2019-2021
  Pancreatic Cancer Canada Foundation
  Title: GATA6 Expression as a Predictor of Response to Peri-Operative Standard Chemotherapy in Resectable Pancreatic Adenocarcinoma: A Multicentre Canadian Phase II study (NeoPancONE)
  Amount: $900, 000
Co-Investigator
Principal Investigator: Knox J

2018-2020
Cancer Research Society
Title: Advancing the local staging of pancreatic ductal adenocarcinoma through high-resolution ultrasound: A pilot study
Amount: $86,065.20
Principal Investigator
Collaborators: Kim TK, McGilvray I, Chetty R

Kielar, A

2021
Title: 'Living' Systematic Review and IPD Meta-Analysis to Evaluate the Contributions of Major and Ancillary Imaging Features on the Diagnostic Accuracy of LI-RADS –
Amount: $414,755

Kirpalani, A

2015-2020
Canadian Institutes of Health Research (CIHR). Collaborative Health Research Projects (NSERC partnered)
Title: Using magnetic resonance imaging to non-invasively image and quantify kidney fibrosis.
Amount: $777,102 CAD
Co-Principal Investigator
Collaborators: Jothy, S, Leung, G, Simmons, C

Krishnan, P

2020-Present
Tolnai Grant. Mount Sinai Hospital
Title: Functional Fetal Brain MR - an exploratory study. Multicenter project
Co-Investigator
Principal Investigators: Van Mieghen T, Blaser S.

2019-Present
Ongoing Multicentre Provincial Project. Funded by Brain Canada
Title: Childhood Cerebral Palsy Neuroscience Discovery Network (CPNET III).
Collaborator and Reviewer
Principal Investigators: Fehlings D, Raybald C

Imaging Data in Phase I of the Funded Stroke Imaging Laboratory for Children (SILC) Project. REB: Prospective Single-Centre Research
Title: Advanced Neuroimaging in Pediatric Stroke, Pathophysiology and Repair in Children with Focal Brain Ischemia.
Collaborator and Reviewer
Principal Investigators: Kassner A and DeVeber G
2016-Present
Brain Canada Institute
Title: Childhood Cerebral Palsy Neuroscience Discovery Network (CPNET II). Ongoing Multicenter Provincial Project
Collaborator and Reviewer
Principal Investigators: Raybaud C, deVeber G

2016-Present
Title: Phase I/IIa, 2-Part, Multi-center, single-arm, open label study to determine the safety, tolerability and pharmacokinetics of oral Dabrafenib in children and adolescent subjects with advanced BRAF V600-Mutation positive solid tumors.
Collaborator and Reviewer
Principal Investigators: Whitlock J.

Kulkarni, S

2019-2020
Breast Friends Conquer All Grant 2019-2020 Princess Margaret Breast Cancer Group Sponsored Seed Grants
Title: Lumpectomies for primary breast cancer and ductal carcinoma in-situ at Princess Margaret Cancer Centre: a retrospective chart review
Principal Investigator - Andrea Covelli

Lam, C

2020 Jan – Present
Canadian Institutes of Health Research Project Grant.
Hemodynamics of pediatric congenital heart disease using accelerated and motion-compensated MRI.
Total Amount: $722,925 CAD.
Co-Investigator.
Principal Investigator: Macgowan, CK.
Co-Investigators: Lam CZ, Yoo SJ.

Laughlin, S

2018 Jan-2023 Jan
Canadian Institutes of Health Research (CIHR).
Title: White matter plasticity in brain synchronization and memory.
Amount: 1,147,500 CAD.
Co-Investigator.
Operating Grant. PI: Mabbott D.
Collaborator(s): Bartels U, Decker A, Frankland P, Laughlin S, Lefebvre J, Oyefiade A, Ramaswamy V.

Machnowska, M

2018-2023
Canadian Foundation for Innovation - Project Innovation Fund
Title: Toronto Perinatal Brain Protection Research Collaboration
Amount: CFI Funding $937,305. Total funding $2,343,263.
Co-Investigator

Mafeld, S
Medtronic External Research Program.
Title: Parallel cluster-randomized trial of the Integrated Pulmonary Index for nurse-administered procedural sedation.
Amount: $63,500 to support direct research costs and ~$60,000 worth of equipment has been awarded Joint collaboration between JDMI and Cardiology
Co-investigator
PI: Conway A

AMS Healthcare Small Grant in Compassion and Artificial Intelligence Automation of procedural fasting instructions.
Amount: $20,000
Co-investigator
PI: Dr. Aaron Conway A

Mandell, D
• 2021–2022
  Funding agency Peter Munk Cardiac Centre Innovation Award (UHN)
  Co-Investigator
  Amount: $101,775

Maralani P
• 2022–2028
  Canadian Institute of Health Research (CIHR) – Project Grant.
  Title: Redefining the paradigm for surveillance in patients with low-grade glioma using saturation transfer magnetic resonance imaging.
  Co-Principal Investigator.
  Principal Investigators: Stanisz GJ, Jabehdar Maralani P, Sahgal A
  Co-investigators: Das S, Lim-Fat MJ, Lipsman N, Sussman D,
  Amount: $830,024 CAD
• 2021 –2023
  Cancer Research Society of Canada.
  Title: Advanced MRI for non-invasive mapping of glioma stem cells in Glioblastoma.
  Principal Investigator.
  Principal Investigator: Jabehdar Maralani P
  Collaborators: Dirks P, Das S and Pirouzmand F
  Amount: $119,165 CAD.
• 2021 – 2026
  Canadian Institute of Health Research (CIHR) – Project Grant.
  Selective neuroimaging for head-injured emergency patients who take anticoagulant medication.
  Amount: 1,239,300 CAD.
  Co-Investigator.
  Principal Investigator: de Wit, Kristen.

• 2021 – 2023
  Alternative Funding Plan (AFP) – Innovation Fund.
  Title: Visual dysfunction in patients with moderate to severe traumatic brain injury.
  Co-Principal Investigator.
  Co-Principal Investigator: Pirouzmand, Farhad.
  Collaborator(s): Sundaram A; Pinto R; Cullen N; Meng Y; Adamonis J.
  Amount: 97,210 CAD.

• 2019 – 2021
  American Society for Neuroradiology – 2019 Scholar Award.
  Title: Quantitative BOLD MRI to detect glioma stem cell niches in non-enhancing FLAIR hyperintense regions in patients with glioblastoma and their effect on treatment response.
  Principal Investigator.
  Principal Investigator: Jabehdar Maralani, Pejman.
  Collaborator(s): Das S, Diamandis P, Lau A, Mehrabian H, Atenafu E.
  Amount: 60,000 USD.

• 2019 Apr – 2021 Mar
  Alternative Funding Plan (AFP) – Innovation Fund.
  Magnetic Resonance Imaging of Brain in Patients with Glioblastoma over the Course of Radiation Therapy.
  Principal Investigator.
  Principal Investigator: Jabehdar Maralani, Pejman.
  Collaborator(s): Sahgal A, Myrehaug S, Tseng CL, Heyn C, Lau A, Campbell M, Atenafu E.
  Amount: 80,874 CAD.

• 2019 Apr – 2021 Mar
  The Canadian Radiological Foundation.
  Title: Quantitative BOLD MRI as a non-invasive tool to unmask the role of glioma stem cells in patients with glioblastoma.
  Principal Investigator.
  Principal Investigator: Jabehdar Maralani, P.
  Amount: 10,000 CAD.

• 2018 Apr – 2023 Mar
  Canadian Institute of Health Research: Project Grant.
  Title: PROphylaxis for venous ThromboEmbolism in Severe Traumatic brain injury (PROTEST): a Double-blind Randomized Controlled Trial.
  Co-investigator
  Principal Investigators: Farhad Pirouzmand and Damon Scales.
  Collaborator(s): Alkins RD; Boyd JG; Christie SD; Cusimano MD; English SW; Fourney DR; Fowler RA; Geerts WH; Gooderham PA; Griesdale D; Jabehdar Maralani, Pejman; Kelly M; Kramer, Andreas H; Kutsogiannis DJ; Lauzier F; Machnowska MH; Mansouri A; Midha R; Murphy LD; O'Kelly CJ; Patel C;
Pronovost AP; Sharma SV; Sinclair J; Tsai EC; Turgeon AF.
Amount: 2,314,126 CAD.

- **2018 Apr–2021 Mar**
  Title: Development of a magnetic resonance imaging and image-analysis framework for high-precision gamma knife-based stereotactic radiosurgery of brain tumours.
  Co-investigator.
  Principal Investigator: Ali Sadeghi-Naini; Collaborator(s): Chugh B; Czarnota G; Jabehdar Maralani P; Lau A; Ruschin M; Sahgal A; Soliman H; Stanisz G. Industry Collaborator: Elekta.
  Amount: 819,859 CAD (NSERC: $391,859, Elekta: $428,000).

- **2018 Aug–2021 Jul**
  Brain Tumour Foundation of Canada.
  Title: Advanced magnetic resonance imaging for detection of tumour regions enriched with glioma stem cell niches.
  Principal Investigator.
  Principal Investigator: Jabehdar Maralani, P.
  Amount: 25,000 CAD.

**Matsuura, N**

- **2020-2021**
  Ontario Centres of Excellence (OCE) Voucher for Innovation and Productivity (VIP)
  Title: Germicidal ultraviolet decontamination devices for minimizing SARS-CoV-2 Spreading
  Amount: 100,000 CAD
  Principal Investigator

- **2020-2021**
  NSERC Alliance
  Title: Rapid Reagent-Free Detection of COVID-19 in Exhaled Breath Condensate using Ultra-Sensitive Multi-Wavelength SERS Nanogratings
  Amount: $50,000 CAD
  Co-Principal Investigator
  Co-Principal Investigator: Kherani N

- **2020-2021**
  UofManchester-UofT
  Title: Bioengineered Intervertebral Disc (IVD) tissue implants: A multimodal approach
  Amount: $8,500 CAD + 5,000 GBP
  Co-Principal Investigator
  Co-Principal Investigator: Domingos M

- **June 2020-May 2022**
  EMHSeed Program (University of Toronto)
  Title: Novel Temporary Embolic Particles for the Treatment of Osteoarthritic Pain
  Amount: 120,000 CAD (Total); 60,000 CAD (Matsuura)
  Co-Principal Investigator
  Co-Principal Investigator: Mafeld S

- **2020-2022**
New Frontiers in Research Fund – Exploration
Title: Ultrasound-activated materials for the diagnosis and treatment of deadly pediatric brain cancers
Amount: $200,000 CAD
Principal Investigator
Co-Principal Investigator: Drake J
Collaborator: Waspe A

2020-2024
CIHR Project Grant
Title: Ultrasound activated bubbles to potentiate cancer therapy
Amount: 455,176 CAD
Principal Investigator
Co-Principal Investigator: Goertz D
Co-Investigators: Shultz D, Allen C

2020-2021
NSERC RTI
Title: Next-Generation Point-of-Care System: Custom Integration of Confocal Raman Spectrometer and High-Sensitivity NanoPhotonic MicroFluidis Devices
Amount: 150,000 CAD
Principal Investigator
Co-Investigator: N. Khearai
Co-Investigators: S. Aitchison, A. Wheeler

2020
CRAFT-NRC
Title: 3D bioprinting of a retrievable stent design using ultrasoundtriggered nanodroplets
Amount: $8,333 CAD
Principal Investigator

2019-2020
TIAMS – UofT
Title: UofT Biomaterials Manufacturing Cluster – UofTokyo Collaboration
Amount: $15,000
Principal Investigator
Co-Investigators: Hani Naguib, Ben Hatton, Eli Sone, Michael Garton

McInnis, M

2021-2022
Canadian Institutes of Health Research - Emerging COVID-19 Research Gaps & Priorities – Post Covid Condition
Title: Pulmonary vascular disease in patients with long COVID
Amount: $292,092 CAD
Co-investigator

2021-2024
Canadian Institutes of Health Research - Respiratory Effects of Nicotine and THC E-Cigarettes.

Title: Catalyst Grant: Health Effects of Vaping.

Amount: $99,995 CAD

Collaborator


**Metser, U**

- 2020-2022
  Canadian Neuroendocrine Tumour Society (CNETS) 2019 - Neuroendocrine Tumour Research Grant
  Title: Examining the Utility of Combined 68Ga-DOTATATE and 18F-FDG PET/CT Imaging on Clinical Management of Patients with Well-differentiated, G2-G3, Gastroenteropancreatic NETs.
  Amount: $40,000
  Principal Investigator

- 2020-2025
  Canadian Cancer Society and Movember Foundation
  Title: PSMA PET/CT Guided Intensification of Therapy in Patients at Risk of Advanced Prostate Cancer (PATRON): A Pragmatic Phase III Randomized Controlled Trial.
  Amount: $2,976,803 CAD
  Co-Investigator
  PI: Menard C

**Mikulis, DJ**

- 2021-2022
  JDMI AIF
  Title: Quantifying Pulmonary Shunting
  Amount: $10,000
  Co-Investigator

- 2021-2024
  NIH K99 and K00
  Title: Measuring blood flow dysregulation following mild traumatic brain injury
  Amount: $290,000
  Co-Principal Investigator
  PI: Wasserman B

- 2022-2023
  CIHR
  Title: International Cohort Study of Neuropsychiatric and Cognitive Sequelae of SARS-CoV-2 (CNS-SARS-CoV-2)
  Amount: $500,000
  Co-Investigator
  Principal Investigator: Carmela Tartaglia

**Mohankumar, R**

- 2021-2023
  The Arthritis Society Innovation Grant
  Title: Bone marrow lesions in osteoarthritis: Genomics and core pathophysiology
Moody, A

- **2020-2025**
  - CIHR
  - Title: Investigating risk factors for cognitive impairment using novel neuropsychological and neuroimaging measures in a Canadian multi-ethnic cohort
  - Amount: $755,000
  - Co-Investigator
  - Principal Applicant: Rabin J

- **2019-2024**
  - CIHR
  - Title: Brain and Body Blood Vessels: Toward Bipolar Disorder as a Systemic Microvascular Illness, Grant, Operating
  - Amount: $952,424 CAD
  - Co-Investigator
  - Principal Applicant: Goldstein B

- **2019-2023**
  - Infrastructure Canada, CSIF
  - Title: Terry Fox Institute and Imagia Collaborative: Marathon of Hope Digital Health and Discovery Platform (DHDP)
  - Amount: $49,000,000
  - Co-Investigator
  - Principal Applicant: Le Bouthillier A

- **2019-2023**
  - Infrastructure Canada, CSIF
  - Title: Industry Consortium for Image Guided Therapy (ICIGT)
  - Amount: $49,000,000
  - Co-Investigator
  - Principal Applicant: Hynynen K

Muradali, D

- **2017-2021**
  - Canadian Institutes of Health Research
  - Title: MRI parenchymal enhancement and risk of breast cancer: A population-based study of women screened in the Ontario Breast Screening Program
  - Amount: $478,124 CAD
  - Co-Investigator
  - Co-Investigators: Brooks J, Chiarelli AM, Kulkarni S, Done S, Jiang H, Yaffe M

Muthusami, P

- **2020**
  - AHA Bugher Grant; Centers of Excellence in Hemorrhagic Stroke Research
Title: Pediatric Hemorrhagic Stroke Center: Improving Outcomes of Children with Brain AVMs.
Collaborative grant with UCSF, for a collaborative center with 3 projects.

- 2020
  Centre for Brain & Mental Health Research
  Title: “The Vascular Endothelial Dysfunction and Stroke in Early Life Study (VESSELS)”
  Amount: $86,105.80
  Co-Investigator

Naraghi, A

- 2019-2020
  The Lung Association
  Title: Skeletal muscle fat infiltration of the limb muscles in idiopathic pulmonary fibrosis
  Amount: $49,912
  Co-Applicant
  Principal Investigator: Rozenberg, D

- 2018-2020
  American Foundation for Surgery of the Hand
  Title: Evaluation of the regenerative potential for autologous fat transfer in the treatment of early CMC OA
  Amount: $20,000
  Co-Applicant
  Principal Investigator: Baltzer, H

Nguyen, E

- 2022-2023
  Academic Incentive Fund, Joint Department of Medical Imaging
  Title: Joint BrEast CANcer & Cardiovascular ScreeniNg in Women: BEACON Study
  Amount: $50,000
  Principal Investigator
  Co-Investigators: Harvey P, Afgani F, Hanneman K, Ghai S, Freitas V, Kulkarni S

- 2020-2023
  Peter Munk Cardiac Centre Innovation Fund
  Title: In-Silico Surgical Planning for Personalized Ascending Aortic Repair to Reduce Distal Dissections (SPARêD²)
  Amount: $223,000
  Co-Investigator
  Co-Investigators: Chung J, Amon C, David T, Doyle M, Hanneman K, Ouzounian M

- 2021-2023
  Women’s College Research Foundation, Sir Thomas Cropo Foundation
  Title: Joint Breast and Cardiovascular Screening Program
  Amount: $260,000
  Principal Investigator
  Co-Investigators: Harvey P, Afgani F

- 2020
  Heart and Stroke Foundation of Canada
Title: Women’s Heart and Brain Health Mid-Career/Senior Career Investigator Award for Improving the Heart and Brain Health for Women in Canada
Amount: $50,000
Co-Investigator
Co-Investigators: Sedlak T, Udell J, Mancini J

Oikonomou, A

- 2021
  Alternative Funding Plan Innovation Fund, Year 14, 2021-2022 Academic Physicians, the Ontario Medical Association (OMA) and the Ontario Ministry of Health and Long-Term Care (MOHLTC)
  Title: “Accelerated cardiac magnetic resonance imaging for heart failure”.
  Amount: $100,000 CAD
  Collaborator
  Co-Collaborators: Wijeysundera H, Wright G, Poon S, Goldman J,

Ortega Mogilevich, C

- 2022
  AIF granted funds for statistical analysis
  Title: Correlation of radiomics features and progression free survival in 68Ga-DOTATATEPET/CT in metastatic neuroendocrine tumors
  Amount: $5000 CAD

Pereira, V.M.

- 2019-2020
  Toronto Western Hospital Foundation
  Title: Advanced Imaging Computational Cluster.
  Amount: $150,000 CAD
  Principal Investigator

- 2017-2020
  Philips
  Title: PHILIPS Imaging Collaboration. Advances in Cone Beam CT for acute stroke assessment
  Amount: $240,000 CAD

Rajan, D

- 2018-Present
  Becton Dickenson
  Title: Prospective North American Multicenter, Post Approval Study of the Lutonix Drug Coated Balloon for dysfunctional dialysis fistulas
  Co-Primary Investigator

- 2020-Present
  Vascular Medcure
  Title: FIH Study of the CAPRE thrombectomy device for declotting of dialysis grafts
  Co-Primary Investigator

Rogalla, P
2020-2022
ISC/NRC
Title: Dual Energy Mobile X-Ray for detecting COVID pneumonia
Amount: $546,400 CAD
Principal Applicant

2021-2022
OBIO
Title: Dual Energy X-ray technology
Amount: $25,000 CAD
Principal Applicant

2019-2021
AHSC AFP
Title: Artificial Intelligence supported, non-invasive detection and staging of liver fibrosis
Amount: $162,535 CAD

2020-2020
German Research Foundation DAAD
Title: CT perfusion in pancreas cancer
Amount: 50,000 EURO
Co-Applicant

2019-2020
Canon Medical Systems, Japan
Title: Diffuse liver disease
Amount: $200,000 CAD
Principal Applicant

2018-2021
Canon Medical Systems, Japan
Title: qIDEA initiative, diffuse liver disease and biomarker
Amount: $260,000 CAD
Principal Applicant

Seed, M
2020-2025
Canadian Institute of Health Research (CIHR).
Title: The Artificial Placenta
Amount: $738,225 CAD
Principal Investigator

2020-2023
NHMRC Project Grant
Title: Mending a broken heart. Understanding and harnessing the fetal heart’s capacity for repair
Amount: $1,000,060 AUD
Co-Investigator
Principal Investigator: Morrison, J
Co-Investigators: Seed M, Selvanayagam J, Nyensgaard J, Macgowan C.

- 2019-2021
  Australian Research Council
  Title: Going with the flow: Directing nutrient rich blood to the brain.
  Amount: $397,057 CAD
  Co-Investigator
  Principal Investigator: Morrison, J.
  Co-Investigator: Macgowan, C

- 2016-2020
  Canadian Institute of Health Research Project Grant
  Title: Brain development following late onset intrauterine growth restriction
  Amount: $550,440 CAD.
  Principal Investigator

- 2016-2022
  CHILD BRIGHT SPOR, Canadian Institute for Health Research.
  Title: Maternal hyperoxygenation in congenital heart disease
  Amount: $1,180,000 CAD
  Principal Investigator

- 2015-2021
  Canadian Institute of Health Research.
  Title: Cardiovascular physiology and brain development in neonates with congenital heart disease.
  Amount: $1,008,000 CAD
  Co-Principal Investigator
  Co-Principal Investigator: Miller S.

Shammas, A

- 2020
  Garron Foundation
  Title: HR-pQCT in ALL.
  Amount: $20,000
  Co-Investigator
  Primary Investigator: Natian P

Schlomovitz, E

- 2022
  AIF Grant, University Health Network
  Title: Design and initial validation of a box simulator for percutaneous cholangioscopy.
  Amount: $10,000
  Principal Investigator
2020
2020 The Foundation for Surgical Innovation and Education (FSIE)
Title: NOLeak
Amount: $10,000
Principal Investigator

Shroff, M
• February 2018-February 2020
  Rare Disease Foundation and BC Children’s Hospital Foundation (BCCHF).
  Title: Comparison of 3D printed models with conventional imaging for pre-therapeutic evaluation of
  vein of Galen malformations.
  Amount: $4,980 CAD
  Co-Investigator
  Principal Investigator: Dr. Muthusami P

Simons, M.E.
• 2014-2020
  JDMI Academic Incentive Fund
  Title: Embolization of Gastric arteries to control Ghrelin levels and weight in bariatric patients.
  Amount: 40,000 CAD
  Principal Investigator
  Collaborator(s): Mironov, O., Zener, R., Tan, KT.

Singh, N
• 2022
  CREMS Program, Faculty of Medicine, University of Toronto
  Title: CREMS Project grant to support medical student sub-study for Advanced Analytics—Lymph
  Node Metastases Detection by Artificial Intelligence Augmented CT Chest Analysis.
  Amount: $5,500
  Principle Investigator
• 2021
  CREMS Program, Faculty of Medicine, University of Toronto
  Title: CREMS Project grant to support medical student for Detection of Human Coronary
  Inflammation by Perivascular Adipose Tissue Computed Tomography Imaging.
  Amount: $5,500
  Principle Investigator
• 2021
  Medical Imaging Alumni Research Award
  Title: Deep Learning for Quantification of Perivascular Adipose Tissue from Non-Contrast ECG-
  Triggered Cardiac CT.
  Amount: $2,000
  Principal Investigator
  Collaborators: Khalid U, Dixit A, Abbasi E, Mahyar
Singurkar, A

- 2021-2023
  Alzheimer’s Society – Proof of concept grant
  Title: Supervised Machine Learning Applied to Brain Perfusion Imaging and MRI to Classify Patients with Neurodegenerative Disease (SMaRTBRAIN)
  Amount: $100,000
  Principal Investigator

- 2021-2025
  CIHR Project Grant
  Title: Alpha-Particle Radioimmunotherapy of Brain Metastases from HER2-Positive Breast Cancer
  Amount: $760,000
  Co-Investigator
  Co-Investigators: Cai Z, Lipsman N, Hynynen K, Trudeau M, Reilly R

- 2021-2023
  CIHR Project Grant
  A Study to Evaluate the Safety and Feasibility of Blood-Brain-Barrier Disruption Using MRI-Guided Focused Ultrasound in the treatment of Her2-positive breast cancer brain metastases
  Amount: $100,000
  Co-Investigator

- 2021-2023
  Brain Tumor Foundation Grant
  Title: Mapping of Essential Amino Acid Metabolism for the Detection of Glioblastoma Multiforme Spread in Post-Surgical Patients (MAP-GBM)
  Amount: $50,000
  Principal Investigator

- 2021-2023
  SRI Internal Grant
  Title: 18F-FET-PET with Standard MRI versus Standard MRI alone to Predict Treatment Failure after Stereotactic Radiotherapy for High Grade Brain Gliomas: A Pilot Study (FETSMaRT)
  Amount: $150,000
  Principal Investigator

Stimec J

- 2019-2021
  Department of Medical Imaging – University of Toronto; Physicians’ Services Incorporated Foundation.
  Title: Randomized Control Trial of Casting vs Pediatric Walker-Boot in the Management of Toddlers’ Fractures 2019-2021
  Amount: $100,500 CAD over 2 years
  Co-Investigator
Narayanan U.

**Sussman, M**
- 2018-2022
  Canadian Institutes of Health Research (CIHR); Catalyst Grant: Musculoskeletal Health and Arthritis
  Title: Developing Image-Based Disease Profiles to Predict Success in Knee Arthroscopy
  Amount $355,000 CAD
  Co-Investigator
  Principal Applicant: Kin On Wong A, Gandhi R
  Co-Applicants: Linda D; McDonald-Blumer H; Mahomed N; Mohankumar R; Marshall W
- 2018-2021
  General Electric Canada
  Title: 3D Hybrid ECG/SIMNAV Cardiac Imaging (in vivo)
  Amount: $40,000 CAD
  Principal Investigator
  Co-Investigator: Wintersperger B
- 2018-2021
  General Electric Canada
  Title: Breath-hold T2 Mapping for Liver Iron Quantification
  Amount: $34,000 CAD
  Principal Investigator
  Co-Investigator: Jhaveri K
- 2018-2021
  Siemens Canada
  Title: Ultra-short TE Imaging
  Amount: $33,000 CAD
  Principal Investigator
  Co-Investigator: Wintersperger B

**Symons, S.P.**
- 2017-2022
  Ontario Brain Institute.
  Title: Ontario Neurodegenerative Research Initiative (ONDRI) 2.0
  Amount: $17,000,000 CAD
  Co-Investigator
- 2016-2021
  Title: The Toronto Dementia Research Alliance (TDRA) Dementia Clinical Research Database: A Platform in Neurodegenerative Diseases
  Amount: $2,774,955 CAD
  Co-Investigator

**Tan, K. T.**
- 2020-2023
  CIHR New Frontiers in Research Fund – Exploration
Title: Gallium-dotatate PET-MR imaging to detect macrophages in abdominal aortic aneurysms.
Amount: $250,000 CAD
Co-Investigator
Principal Investigator: Byrne J

2021-2026
R3 Vascular, Inc.
Title: The R3 Vascular Drug-Eluting Bioresorbable Scaffold in Below the Knee Vessels Trial I (RESOLVE I).
Amount: $50,000 CAD
Principal Investigator

2021-2023
Peter Munk Cardiac Centre Innovation Fund, University Health Network.
Title: A Prospective, Single-centre Study Investigating the Clinical Use and Safety of the Jetstream Atherectomy with Drug Coated Balloon (Ranger) for the Treatment of Dysfunctional Arterio-Venous Graft Stenosis.
Amount: 58,800 CAD
Principal Investigator

2019-2021
Joint Department of Medical Imaging Academic Incentive Fund, University Health Network.
Amount: $40,000 CAD
Co-Investigator
Principal Investigator: Veit-Haibach P.

2019-Ju2020
Peter Munk Cardiac Centre Innovation Fund, University Health Network.
Title: Comparison of Carbon Dioxide Flush and Saline Flush to Saline Flush Alone in TEVAR and TAVI Procedures to Reduce Cerebral Ischemia.
Amount: $50,000 CAD
Principal Investigator

2018-2020
Lutonix, Inc., a subsidiary of Becton, Dickinson and Company (BD).
Title: A Prospective, Global, Multicenter, Single Arm Post-Approval Study Investigating the Clinical Use and Safety of the Lutonix® Drug Coated Balloon PTA Catheter for the Treatment of Dysfunctional AV Fistulae (Lutonix AV PAS).
Amount: $70,000 CAD
Co-Investigator
Principal Investigator: Rajan D

2018-2023
Endospan Ltd. PI: Lindsay, Thomas
Title: The SB NEXUS™ Aortic Arch Stent Graft System Data Collection Study for Special-Access Procedures in Canada.
Amount: $68,000 CAD
Co-Investigator
Principal Investigator: Lindsay T

- 2017-2020
  Cook Research Incorporated.
  Title: Post-Market Study for Zenith Alpha™ Abdominal Endovascular Graft.
  Amount: $90,000 CAD
  Co-Investigator

Principal Investigator: Thomas L

- 2016-2021
  Boston Scientific Corporation
  Title: MPERIAL - A randomized trial comparing the ELUVIA™ drug-eluting stent versus Zilver® PTX® stent for treatment of superficial femoral and/or proximal popliteal arteries.
  Amount: $65,000 CAD
  Principal Site Investigator

- 2015-2020
  National Heart, Lung, and Blood Institute (NHLBI)
  Title: BEST-CLI Trial: Randomized, Multicenter, Controlled Trial to Compare Best Endovascular versus Best Surgical Therapy in Patients with Critical Limb Ischemia.
  Amount: $120,000 CAD
  Co-Principal Site Investigator

Taylor, M.J.

- 2021-2024
  SFARI (Simons Foundation)
  Title: Investigating neural imbalance in early autism with innovative wearable MEG.
  Amount: $703,545 USD
  Co-Investigator
  Co-Investigators: Anagnostou E, Brian J, Safar K

- 2021-2026
  CIHR-BSB
  Title: Characterising brain network dynamics in very young children with autism using OPM-based MEG. Taylor
  Amount: $864,450.
  Co-Investigator
  Co-Investigators: Anagnostou E, Brian J, Dunkley BT, Kadis D, Safar K.

- 2021-2023
  Feiga Bresver Catalyst Grant
  Title: Brain oscillations and emerging symptoms in toddlers with autism: Combined insights from new MEG technology and basic neurophysiology.
  Amount: $99,282.
  Co-Investigator
  Co-Investigators: Safar K, Anagnostou E, Brian J, Collingridge G

- 2021 – 2023
  Centre for Brain & Mental Health (C-BMH) Health Outcomes
  Title: Addressing autism spectrum disorder heterogeneity for personalized care: symptom characterization and subtyping using neural activity profiling and artificial intelligence.
Amount: $100,000
Co-Investigator
Co-Investigators: Zhang J, Safar K, Anagnostou E, Dunkley, BT

- 2018-2024
  CFI-JELF
  Title: It’s all about time: Optimising infrastructure for functional brain imaging in children.
  Amount: $1,592,005
  Co-Investigator
  Co-Investigators: Mabbott DJ, Dunkley BT

- 2018-2023
  CIHR-BSB
  Title: Aging in Autism Spectrum Disorder: Changes in brain structure and function.
  Amount: $1,024,152
  Co-Investigator
  Co-Investigators: Anagnostou E, Grady C, Lerch JP, Stoddart K.

- 2015-2021
  CIHR-BSB
  Title: Understanding the thoughts and emotions of others: neuroimaging measures of typical and atypical development.
  Amount: $825,126 (total)
  Co-Investigator
  Co-Investigators: Pang EW, Smith ML, Anagnostou E.

Torres, FS
- 2021-2023
  JDNI AI Centre
  Title: Automated pulmonary function quantification and toxicity risk prediction from computed tomography imaging of non-small cell lung cancer patients.
  Amount: $170,000
  PI: Torres FS
  Co-I: Raman S, Hope A, Baldauf-Lenschen F, Akbar S

Tyrrell, P
- 2020-2024
  Nippon Steel Corp. (Japan)
  Title: Medical Imaging Recognition via Reduced Annotation Workload
  Amount: $180,000
  Principal Investigator

- 2021-2022
  Novo Nordisk A/S (Denmark)
  Title: An AI-augmented hemarthrosis detection system to improve healthcare delivery to hemophilia patients
  Amount: 2021/12 - 2022/12 - $278,000 CAD; 2020/11 - 2021/10 - $228,000 CAD
  Principal Investigator

- 2020 - 2022
Novo Nordisk A/S (Danemark)
Title: AI/ML solution for MSK Hemarthrosis Image Dataset Scarcity: Creating Synthetic Data
Amount: $115,000
Principal Investigator

- 2020-2022
Mathematics of Information Technology and Complex Systems (MITACS)
Title: Portable Detection and Characterization of the Synovium and Effusion in Musculoskeletal Ultrasound
Amount: $60,000 CAD
Principal Investigator

- 2020-2021
Digital Technology Supercluster, COVID-19 program
Title: Development of an Open Global Clinical Dataset and AI-based Clinical Prediction Tool for Hospitalized Patients with COVID-19
Amount: $1,777,000 CAD
Co-applicant

- 2020
Mathematics of Information Technology and Complex Systems (MITACS)
Title: Detection and Characterization of the Synovium in Musculoskeletal Ultrasound
Amount: $15,000 CAD
Principal Applicant

Vali, R
- 2020
Garron Foundation
Title: “HR-pQCT in ALL”
Amount: $20,000
Co-Investigator
Primary Investigator: Nathan P

Viet-Haibach, P
- 2022
Academic Incentive Fund
Title: Pmod Software Upgrade
Amount: $19,469
Principal Investigator

- 2022
PMH Catalyst Grant
FLT-PET/MR for Evaluation of pseudoprogression vs. true progression in patients with brain metastases.
Amount: $100,000
Co-Investigator

- 2022
Terry Fox Investigator Award
Title: Optimizing Therapy for Hepatocellular Carcinoma via Image-guided Porphysome delivery.
Amount: $450,000  
Co-Investigator

- 2021  
  Academic Incentive Fund  
  Title: NaF PETMR in management of OA  
  Amount: $30,800  
  Co-Investigator

- 2021-2024  
  OICR, Clinical Acceleration Team Awards  
  Title: First-in-Human Porphysome Nanotechnology for Precision Tumour Ablation and Surgical Guidance.  
  Amount: $1,130,803  
  Co-Investigator

- 2020  
  CIHR  
  Title: Understanding the Interaction of Acute Myeloid Leukemia with the Bone Marrow Microenvironment: Elucidating New Therapeutic Targets Through In Vivo Imaging  
  Amount: $800,000  
  Co-Investigator

- 2020-2023  
  CIHR, New Frontiers Grant  
  Amount: $375,000 CAD  
  Principal Investigator  
  Co-Principal Investigator: Byrne J  
  Collaborators: Tan KT, Robbins C, Montbriand J, Doyle M

- 2021  
  PMH foundation molecular imaging research support  
  Amount: $250,000/year

- 2020  
  Siemens Healthineers  
  Title: PET/MR research support Exploratory evaluation of simultaneous cardiac PET/MR, metabolomic markers and circulating DNA as possible prognostic markers in identifying developing transient or permanent cardiopulmonary dysfunctions after radiotherapy.  
  Amount: $150,000

Waspe, A

- 2021-2026  
  Canada Foundation for Innovation – 2020 Innovation Fund  
  Title: Advanced Fetal Diagnostics and Therapy Program  
  Amount: $7,113,863  
  Co-Applicant  
  Co-Applicants: Drake, J.M., Van Mieghem T, Campisi P., Kahrs L., Looi T., Macgowan C., Ryan G., Seed M., Sussman D.

- 2021-2022  
  Strategic Innovation Fund - INOVAIT
Title: MR-guided laser interstitial thermal therapy in the brain by AI-based modelling of laser tissue interaction and heat propagation in clinical MRI data
Amount: $125,000
Co-Applicant

• 2020-2022
New Frontiers in Research Fund – Exploration Grant
Title: Ultrasound-activated materials for the diagnosis and treatment of deadly pediatric brain cancers
Amount: $250,000
Co-Applicant
Co-Applicants: Matsuura, N., Drake J.M

• 2019-2022
Canadian Institutes of Health Research – Operating Grant
Title: Magnetic resonance-guided focused ultrasound for incisionless musculotendinous contracture release
Amount: $424,576
Co-Applicant
Co-Applicants: Drake J.M., Chu Kwan W., Narayanan U., Temple M.J.

• 2019 – 2022
Collaborative Health Research Projects (CHRP – CIHR/NSERC Partnered)
Title: Development of a Magnetic Resonance guided High Intensity Focused Ultrasound Therapy Platform for Perinatal Applications
Amount: $650,000
Applicant

• 2018-2023
Natural Sciences and Engineering Research Council of Canada (NSERC) – Discovery Grant
Title: Development of simulation tools and enhanced image-guidance for optimized planning and monitoring of high intensity focused ultrasound energy delivery
Amount: $120,000
Applicant

Widjaja, E

• 2022-2023
Temerty Ukraine – Toronto Education and Collaboration Initiative Grant. University of Toronto
Title: Ukraine – Pediatric Epilepsy Educational Project.
Amount: $50,000
Principal Investigator

• 2020 – 2025
NIH RO1 HD101419
Title: Neurological Outcome of Glycemia in Neonatal Encephalopathy
Amount: US$803,996
Co-Investigator
Principal Investigator: Emily Tam
• 2019 – 2022
  Pediatric Epilepsy Research Foundation (PERF).
  Title: Pediatric Epilepsy MR-guided Laser Interstitial Thermal Therapy (PEP-LITT) Registry
  Amount: US$200,000
  Principal Investigator

• 2019 – 2025
  CIHR
  Title: Neurological Outcome of Glycemia in Neonatal Encephalopathy
  Amount: $770,104
  Co-investigator
  Principal Investigator: Tam E

• 2018-2023
  EpLink/ Ontario Brain Institute
  Title: Improving Epilepsy Surgery Outcomes
  Amount: $253,745
  Principal Investigator

• 2017 – 2020
  Ontario Ministry of Health and Long Term Care
  Title: Epilepsy ECHO Across the Lifespan
  Amount: $2,061,412
  Chair of Evaluation Committee
  Principal Investigator: Snead C

• 2016 – 2021
  CIHR
  Title: Brain development following late onset intrauterine growth restriction
  Amount: $550,440
  Co-Principal Investigator
  Co-Principal Investigator: Kingdom J
  Nominated Principal Investigator: Seed M

• 2014 – 2020
  CIHR
  Title: Impact of Pediatric Epilepsy Surgery on Health-Related Quality Of Life
  Amount: $697,292
  Nominated Principal Investigator

**Wood, M**

• 2016-2021
  IOF Award from Canada Foundation for Innovation and Ontario Research Fund
  Title: Diet, the Digestive tract, and Disease: The 3D Centre
  Amount: $126,000.
  Collaborating Institution Project Leader
  Project Leader: Jenkins D

**Yan, C**

• 2022-2025
Department of Medical Imaging – University of Toronto
Title: Utility of a multiparametric prostate MRI AI-derived (MAI)-score of when to biopsy (and when to avoid biopsy) of PI-RADS category 3 and 4 lesions
Amount: $100,000
Collaborator
Principal Investigator: Lim C

2022-2025
Department of Medical Imaging – University of Toronto
Title: MRI phenotype of colorectal liver metastases as a predictor of mutational profile and long-term outcomes
Amount: $100,000
Collaborator
Principal Investigator: Cheung H, Patel C

Yu, E

2017-2020
Innovation Fund Surgical Oncology (Ontario Cancer Institute/Princess Margaret Cancer Centre
Title: Finding/Identifying Primaries with Neck Disease (FIND Trial): A Pilot Study Integrating Transoral Robotic Surgery, Histopathologic Localization, and Tailored Delintensification of Radiotherapy for Unknown Primary and Small Oropharyngeal Head and Neck Squamous Cell Carcinoma
Amount: $70,000
Co-Investigator

2012-Present
Spinal Research Foundation
Title: A Phase II Study to Determine Efficacy of Stereotactic Body Radiotherapy (SBRT) for Spinal/Para-Spinal Metastases –Sub-section on CT perfusion
Amount: $10,000 CAD
Collaborator
Co-Collaborators: Collaborator(s): Laperriere JN, Massicotte E, Lewis S, Rampersaud R, Fehlings F, Xu W, Letourneau D
Principal Investigator: Sahgal A