

INOVAIT Ultimate Recipients / Bénéficiaires ultimes d'INOVAIT

September 2024 / septembre 2024

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|---|--|--------------|----------|---|---|
| Single exposure Dual Energy Subtraction X-ray device for image guided therapy | KA Imaging | Waterloo | ON | \$ 521,977.60 | \$ 125,000.00 |
| | Sunnybrook Research Institute | Toronto | ON | | |
| Neuronavigation of Low Intensity Focused Ultrasound for Neuromodulation | University of Calgary | Calgary | AB | \$ 473,597.50 | \$ 125,000.00 |
| | Recherches Rogue, Les / Rogue Research Inc. | Montreal | QC | | |
| Computer vision based surgical planning tools for craniomaxillofacial (CMF) restoration. | Sunnybrook Research Institute | Toronto | ON | \$ 316,615.50 | \$ 107,273.84 |
| | Calavera Surgical Design Inc. | Toronto | ON | | |
| Artificial Intelligence and a Wearable Carotid Doppler Patch: predicting cardiovascular function and response to therapy in congestive heart failure | Flosonics Medical | Sudbury | ON | \$ 577,500.26 | \$ 125,000.00 |
| | Sunnybrook Research Institute | Toronto | ON | | |
| Development of accelerated cardiac magnetic resonance technology and discovery of novel imaging biomarkers to improve outcomes in heart failure | Sunnybrook Research Insitutie | Toronto | ON | \$ 346,218.63 | \$ 115,545.79 |
| | Cohesic Inc. | Calgary | AB | | |
| A.I. Reconstructed Rapid Screening Exams using Synaptive Medical's Novel 0.5-T Point-of-Care Neuro-MRI. | Nova Scotia Health Authority | Halifax | NS | \$ 609,996.36 | \$ 127,386.97 |
| | Synaptive Medical Inc. | Toronto | ON | | |
| Development of an Ultrafast Ultrasound Platform for Endoscopic Image Guided Surgery | Nova Scotia Health Authority | Halifax | NS | \$ 442,988.75 | \$ 126,145.14 |
| | Daxsonics Ultrasound Inc. | Halifax | NS | | |
| | Synaptive Medical Inc. | Toronto | ON | | |
| Image guided therapy powered by virtual reality and artificial intelligence | Luxsonic Technologies Inc. | Saskatoon | SK | \$ 365,887.50 | \$ 125,000.00 |
| Artificial Intelligence-Enhanced Focused Ultrasound Therapy | Sunnybrook Research Institute | Toronto | ON | \$ 441,247.38 | \$ 125,000.00 |
| | Arrayus Technologies Inc. | Burlington | ON | | |
| Multiparametric Microultrasound Imaging of the Prostate | Sunnybrook Research Institute | Toronto | ON | \$ 403,969.39 | \$ 127,772.75 |
| | Exact Imaging Inc. | Markham | ON | | |
| | University of British Columbia | Vancouver | BC | | |
| Artificial intelligence applied to planning, clinical diagnostics and stability assessment in spine stereotactic body radiation therapy (SBRT) | Sunnybrook Research Institute | Toronto | ON | \$ 433,275.60 | \$ 125,000.00 |
| | Altis Labs, Inc. | Toronto | ON | | |
| Prognosis in Stroke and Neurodegeneration with Automated Imaging analysis (PROSAIL). | Sunnybrook Research Institute | Toronto | ON | \$ 348,355.42 | \$ 125,000.00 |
| | True Positive Medical Devices Inc. | Québec | QC | | |
| Integrating machine learning and artificial intelligence into a focused ultrasound research platform for longitudinal studies in drug delivery and neuromodulation. | University of Calgary | Calgary | AB | \$ 296,653.85 | \$ 95,406.94 |
| | FUS Instruments | Toronto | ON | | |
| A clinical, academic and industrial partnership for developing and commercializing high impact AI algorithms in digital pathology. | Sunnybrook Research Institute | Toronto | ON | \$ 389,073.30 | \$ 126,886.14 |
| | Pathcore Inc. | Toronto | ON | | |
| | Ryerson University | Toronto | ON | | |
| Magnetic Resonance Imaging for Arrhythmia Management | Sunnybrook Research Institute | Toronto | ON | \$ 384,889.38 | \$ 125,051.50 |
| | Percept Imaging Inc. | Toronto | ON | | |
| Image-Guided Breast Biopsy with Simultaneous PET and Ultrasound Imaging | Radialis Inc. | Thunder Bay | ON | \$ 582,093.19 | \$ 128,989.00 |
| | Thunder Bay Regional Health Research Institute | Thunder Bay | ON | | |

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| Intravascular and intracardiac imaging technologies with automated measurements and tissue characterization | Sunnybrook Research Institute | Toronto | ON | \$ 375,557.50 | \$ 125,733.65 |
| | Conavi Medical Inc. | Toronto | ON | | |
| Intelligent noise suppression for intraoperative ultrasound and point-of-care MR imaging | Sunnybrook Research Institute | Toronto | ON | \$ 420,588.83 | \$ 125,659.23 |
| | Conavi Medical Inc. | Toronto | ON | | |
| | Synaptive Medical Inc. | Toronto | ON | | |
| CNN applications in Super Resolution Acoustic Angiography | Sunnybrook Research Institute | Toronto | ON | \$ 406,765.63 | \$ 125,000.00 |
| | FUJIFILM VisualSonics Inc. | Toronto | ON | | |
| Quantitative Ultrasound Platform/Sonotype | Sunnybrook Research Institute | Toronto | ON | \$ 417,923.75 | \$ 125,000.00 |
| | GJ Czarnota Medicine Professional Corp. | Oakville | ON | | |
| | Precision Cancer Technologies Inc. | Toronto | ON | | |
| Forward-Looking Intravascular Ultrasound For Image-Guided Revascularization. | Ryerson University | Toronto | ON | \$ 469,566.45 | \$ 125,786.50 |
| | Magellan Biomedical | Scarborough | ON | | |
| | Sunnybrook Research Institute | Toronto | ON | | |
| OSNAT 800- prototype development (Retinal imaging, laser eye surgery and machine learning diagnostic assist) | PulseMedica Corp. | Edmonton | AB | \$ 767,224.58 | \$ 125,011.33 |
| | Matthew Tennant Professional Corporation | Edmonton | AB | | |
| Development of an Image Guided Algorithm to Predict the Risk of Aortic Aneurysm Growth Based on ECG Gated CT Images | VITAA Medical Solutions | Montreal | QC | \$ 638,278.74 | \$ 125,000.00 |
| Electrical Impedence Tomography (EIT) System for Image-Guided Outpatient Therapy for Chronic Obstructive Pulmonary Disease (COPD) | Tidal Medical Inc. | North York | ON | \$ 611,250.00 | \$ 125,000.00 |
| | Carleton University | Ottawa | ON | | |
| Development of AI directed ablative devices for the treatment of sub-solid lung nodules with CT guided microwave energy. | Quicker Instruments Inc. | Richmond | BC | \$ 304,366.56 | \$ 83,183.00 |
| | Vancouver Radiology Inc. (operating as Vancouver Imaging) | Vancouver | BC | | |
| AI-Based Determination of Radiomic Features from Preclinical PET/MR Images to Guide Immunotherapy Decisions in Ovarian Cancer Clinical Trials. | IWK Health Centre | Halifax | NS | \$ 348,462.79 | \$ 112,753.80 |
| | Dalhousie University | Halifax | NS | | |
| | IMV Inc. | Dartmouth | NS | | |
| MR-guided laser interstitial thermal therapy in the brain by AI-based modelling of laser tissue interaction and heat propagation in clinical MRI data. | Hospital for Sick Children | Toronto | ON | \$ 436,871.28 | \$ 124,999.67 |
| | Monteris Medical Inc. | Winnipeg | MB | | |
| | University Health Network | Toronto | ON | | |
| | Governing Council of the University of Toronto | Toronto | ON | | |
| StrokeSENS: Rapid image-guided remote decision-making for patients with acute ischemic stroke. | University of Calgary | Calgary | AB | \$ 643,610.00 | \$ 125,000.00 |
| | Circle Cardiovascular Imaging Inc. | Calgary | AB | | |

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| Early Diagnosis of Cranial Disorders in Infants using Digital Imaging and Machine Learning | Lumentra Inc. | Mississauga | ON | \$ 343,376.20 | \$ 125,000.00 |
| | Governing Council of the University of Toronto | Toronto | ON | | |
| Image registration and fusion for coronary angiography-derived index of vascular resistance | Opsens | Québec City | QC | \$ 375,450.40 | \$ 125,000.00 |
| Democratizing ultrasound guided therapy for congestive heart failure | Presuna Inc. | Coleman | AB | \$ 375,833.34 | \$ 125,000.00 |
| Combination of optical imaging and deep learning for better seizure localization to improve epilepsy surgical and Deep Brain Stimulation Therapies. | Neurescence Inc. | Toronto | ON | \$ 578,912.50 | \$ 125,000.00 |
| | Carleton University | Ottawa | ON | | |
| Monitoring foot health from the palm of your hand. | MIMOSA Diagnostics | Toronto | ON | \$ 570,492.50 | \$ 125,000.00 |
| | The Mayer Institute | Hamilton | ON | | |
| Post-surgical monitoring of arthroplasty components using deep-learning based CT reconstruction | The University of Western Ontario | London | ON | \$ 375,442.00 | \$ 125,000.00 |
| | Canon Medical Systems Canada Limited | Markham | ON | | |
| Controlling catheter contact force intelligently | Aufero Medical Technologies Inc. | London | ON | \$ 389,285.98 | \$ 125,000.00 |
| | The University of Western Ontario | London | ON | | |
| Integration of AI tools into 3D ultrasound-guided prostate biopsy | Focal Healthcare Inc. | Toronto | ON | \$ 488,318.97 | \$ 125,000.00 |
| | The University of Western Ontario | London | ON | | |
| Enhancing Spinal Cord DTI Tractography using Deep Learning | Sunnybrook Research Institute | Toronto | ON | \$ 389,549.55 | \$ 125,246.50 |
| | Luxsonic Technologies Inc. | Saskatoon | SK | | |
| | Synaptive Medical Inc. | Toronto | ON | | |
| | University of Waterloo | Waterloo | ON | | |
| An AI-based software to enable early and opportunistic screening for osteoporosis from conventional x-ray. | 16 Bit Inc. | Ancaster | ON | \$ 700,526.67 | \$ 125,245.50 |
| | Sectra Canada | Mississauga | ON | | |
| Enhanced capabilities for magnetic navigation with X-ray fluoroscopy | The University of Western Ontario | London | ON | \$ 184,608.50 | \$ 61,530.49 |
| | Northern Digital Inc. | Waterloo | ON | | |
| AutoDentalPlan | ClaroNav | Toronto | ON | \$ 349,191.76 | \$ 114,765.98 |
| Integrating AI and IGT in a surgical robot for spinal pain management | Libang Surgical Technologies Inc. | Vancouver | BC | \$ 375,738.31 | \$ 125,000.00 |
| | Vancouver Radiology Inc. (operating as Vancouver Imaging) | Vancouver | BC | | |
| Product development & clinical validation of IRegained Myhand™ System: A novel hand function rehabilitation system for persons with stroke. | IRegained Inc. | Sudbury | ON | \$ 383,493.42 | \$ 124,999.99 |
| | Baycrest Health Sciences | Toronto | ON | | |
| Automated prognostication and pulmonary function quantification from pretreatment computed tomography imaging of early-stage lung cancer patients | Altis Labs, Inc. | Toronto | ON | \$ 388,601.62 | \$ 125,000.00 |
| | University Health Network | Toronto | ON | | |

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| Image-guided personalized therapy platform for pelvic floor disorders combining proprietary and novel 3D ultrasound, AI and adaptive manufacturing | Cosm Medical Corp. | Toronto | ON | \$ 1,008,036.63 | \$ 122,500.00 |
| | The University of Western Ontario | London | ON | | |
| Development of a deep learning-based prostate MRI model for commercial radiation therapy autosegmentation software. | Limbus AI Inc. | Regina | SK | \$ 341,408.48 | \$ 115,885.37 |
| | Nova Scotia Health Authority | Halifax | NS | | |
| Liver Tissue Segmentation and Shear Wave Quality Assissment in Ultrasound Elastography. | Sonic Incytes Medical Corp. | Vancouver | BC | \$ 422,334.37 | \$ 125,000.00 |
| Improving Stroke Detection and Diagnosis with AI enhanced Simple Perfusion Reconstruction Algorithm (SPIRAL) | Andromeda Medical Imaging Inc. | Calgary | AB | \$ 431,049.57 | \$ 126,298.45 |
| | University of Calgary | Calgary | AB | | |
| ML enabled Imaging, Classification and Treatment of Symptomatic Vitreous Opacities and other vitreoretinal conditions | PulseMedica Corp | Edmonton | AB | \$ 5,993,100.02 | \$ 1,997,700.02 |
| | Matthew Tennant Professional Corporation | Edmonton | AB | | |
| Expanding StrokeSENS - AI tools for rapid image interpretation for decision-making for patients with acute ischemic stroke | Circle Cardiovascular Imaging Inc. | Calgary | AB | \$ 5,969,824.38 | \$ 1,989,941.46 |
| | University of Calgary | Calgary | AB | | |
| Development of AI Based Image Guided Software to Predict Aneurysm Growth Risk | VITAA Medical Solutions | Montreal | QC | \$ 5,999,958.75 | \$ 1,999,986.25 |
| | University of Calgary | Calgary | AB | | |
| Advanced MR Neuroimaging Acquisition & Reconstruction at 0.5 T: Product Development and Clinical Validation for use in Image Guided Therapy | Synaptive Medical Inc. | Toronto | ON | \$ 4,262,077.47 | \$ 1,420,692.49 |
| | Nova Scotia Health Authority | Halifax | NS | | |
| Development of Dual Frequency Ultrasound Technology for Preclinical and Clinical Applications | Fujifilm VisualSonics Inc. | Toronto | ON | \$ 4,197,358.07 | \$ 1,399,119.36 |
| | Sunnybrook Research Institute | Toronto | ON | | |
| Artificial intelligence platform to guide ultrasound of the liver | Sonic Incytes Medical Corp. | Vancouver | BC | \$ 3,564,887.58 | \$ 1,188,295.86 |
| | NVV Software Solutions Inc | Richmond | BC | | |
| Development of an Ultrafast Ultrasound Platform for Endoscopic Image Guided Surgery | Daxsonics Ultrasound Inc. | Halifax | NS | \$ 3,509,387.50 | \$ 1,169,795.84 |
| | Dalhousie University | Halifax | NS | | |
| | Nova Scotia Health Authority | Halifax | NS | | |
| | Synaptive Medical Inc. | Toronto | ON | | |
| Rho™: An AI-based software to enable early and opportunistic screening for osteoporosis from conventional x-ray | 16 Bit Inc. | Ancaster | ON | \$ 5,969,412.50 | \$ 1,989,804.17 |
| | Canadian Association of Radiologists | Ottawa | ON | | |
| | Osteoporosis Canada | Toronto | ON | | |
| | University of Northern British Columbia | Prince George | BC | | |
| | True North Imaging | Thornhill | ON | | |
| Artificial Intelligence-Enhanced Focused Ultrasound Therapy | Arrayus Technologies Inc. | Burlington | ON | \$ 5,402,371.39 | \$ 1,800,790.47 |
| | Sunnybrook Research Institute | Toronto | ON | | |

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| Intelligent image segmentation, registration, and 3-dimensional visualization in a unified virtual reality workflow for image guided therapy | Luxsonic Technologies Inc. | Saskatoon | SK | \$ 3,298,562.50 | \$ 1,099,520.83 |
| | Voronoi Health Analytics | Vancouver | BC | | |
| | Sunnybrook Research Insitutie | Toronto | ON | | |
| AI Solutions for Minimally Invasive Imaging Systems | Memorial University of Newfoundland | St. John's | NL | | |
| | Conavi Medical Inc. | Toronto | ON | \$ 5,999,538.71 | \$ 1,999,846.23 |
| | Sunnybrook Research Insitutie | Toronto | ON | | |
| R&D to Commercialization of a Digital Gynecology Platform for Personal Pelvic Health: IGT, AI and 3D Printing at the intersection of FemTech & AgeTech | Cosm Medical | Toronto | ON | \$ 5,617,753.05 | \$ 1,872,584.35 |
| | University of Western Ontario | London | ON | | |
| Improving cardiovascular outcomes in diabetics using AI-driven therapy recommendations at time of cardiovascular imaging | Cohesic Inc. | Calgary | AB | \$ 2,052,912.50 | \$ 684,304.16 |
| | The Governors of the University of Calgary | Calgary | AB | | |
| | Sunnybrook Research Institute | Toronto | ON | | |
| Fully-Automated Prognostic Imaging Biomarkers in Advanced Solid Tumors using Deep Learning | Altis Labs, Inc. | Toronto | ON | \$ 5,993,759.78 | \$ 1,997,919.94 |
| | University Health Network | Toronto | ON | | |
| | Trillium Health Partners | Mississauga | ON | | |
| | University of Calgary | Calgary | AB | | |
| | Sunnybrook Research Insitutie | Toronto | ON | | |
| | BC Cancer | Vancouver | BC | | |
| | Bayer Inc. | Mississauga | ON | | |
| | SapienML | Vancouver | BC | | |
| LoTUS: Localising Tumours with UltraSound | MOLLI Surgical Inc. | Toronto | ON | \$ 476,160.32 | \$ 124,995.61 |
| | Sonele Inc. | Markham | ON | | |
| AI Tools for the Workflow, Diagnosis, and Treatment Assessment of Pulmonary Embolism on Ventilation-Perfusion Scintigraphic Imaging | Jubilant DraxImage, Inc. (dba. Jubilant Radiopharma, RadioPharmaceuticals Division) | Kirkland | QC | \$ 376,975.63 | \$ 125,000.00 |
| | The Ottawa Hospital Research Ins | Ottawa | ON | | |
| Focused Ultrasound to Treat Sudden Vision Loss from Intraocular Haemorrhage: Development of a Computer-vision based Imaging System to Guide Therapy. | Vitreosonic Inc. | North York | ON | \$ 380,000.00 | \$ 124,707.12 |
| | Sunnybrook Research Insitutie | Toronto | ON | | |
| Image-guided Needle Visualization Enhancement for a Touchless Ultrasound Display Device (INVETU-D2) | NZ Technologies Inc. | Vancouver | BC | \$ 377,256.09 | \$ 124,473.72 |
| | Kinetix Medicine | Vancouver | BC | | |
| Artificial intelligence-based image analysis algorithm to guide anti-HER2 targeted therapy in gastric and breast cancer | Sunnybrook Research Insitutie | Toronto | ON | \$ 302,553.75 | \$ 100,388.25 |
| | Huron Digital Pathology | St. Jacobs | ON | | |
| Pedal Doppler Ultrasound: System Development and AI integration | Moonrise Medical, Inc. | Oakville | ON | \$ 372,835.00 | \$ 124,269.74 |
| | Daxsonics Ultrasound Inc. | Halifax | NS | | |

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| OnX-Dx: Advancing Early Intervention with Virtual Biopsy via Ultrasound Tissue Characterization and AI | Oncoustics | Toronto | ON | \$ 460,130.00 | \$ 115,032.50 |
| | University Health Network | Toronto | ON | | |
| AI Noise Suppression for Interventional MRI | University Health Network | Toronto | ON | \$ 361,902.50 | \$ 120,524.06 |
| | Synaptive Medical Inc. | Toronto | ON | | |
| Real-time prostate motion tracking during an MR-guided TULSA-PRO procedure | Profound Medical | Mississauga | ON | \$ 317,105.98 | \$ 100,139.81 |
| | McMaster University | Hamilton | ON | | |
| Quickly and accurately diagnosing brain cancer in real time during surgery with AI driven molecular imaging | Point Surgical Inc. | Toronto | ON | \$ 315,862.50 | \$ 100,526.25 |
| | Unity Health Toronto | Toronto | ON | | |
| Development of a user-friendly video image-based eye-tracking system to collect data for an AI-based disease classifier for clinical use | Dynamiris Inc. | Kingston | ON | \$ 346,127.50 | \$ 115,361.95 |
| | Queen's University | Kingston | ON | | |
| Novel platform technology that uses robotics, ultrasound imaging, and AI/ML to automate the manual lymph node search process in excised cancer tissues | Tenomix Inc. | London | ON | \$ 831,533.55 | \$ 124,995.24 |
| | University of Western Ontario | London | ON | | |
| Machine learning-driven peptide design for image-guided therapy | ProteinQure Inc. | Toronto | ON | \$ 606,722.96 | \$ 125,000.00 |
| | University Health Network | Toronto | ON | | |
| First Fresh Bulk Tissue Imaging with Smart Staining for Rapid Intraoperative Breast Cancer Margin Assessment | illumiSonics, Inc. | Waterloo | ON | \$ 356,001.40 | \$ 117,431.16 |
| | University of Waterloo | Waterloo | ON | | |
| First Accurate Fresh Bulk Tissue Imaging with Multiplex Smart Staining and AI-Assisted Diagnosis for Rapid Intraoperative Cancer Assessment | illumiSonics, Inc. | Waterloo | ON | \$ 5,991,130.00 | \$ 1,997,043.33 |
| | University of Waterloo | Waterloo | ON | | |
| OnXX: Advancing Point of Care AI Driven Diagnostics for Populations in Need | Oncoustics | Toronto | ON | \$ 5,985,925.00 | \$ 1,995,308.33 |
| | University Health Network | Toronto | ON | | |
| Image-Guided Histotripsy for Effective Debulking of the Tongue Base and Treatment of Benign Thyroid Nodules | Sound Blade Medical | Halifax | NS | \$ 401,350.00 | \$ 123,037.00 |
| | Dalhousie University | Halifax | NS | | |