

John R. Evans Leaders Fund Backgrounder

Alberta

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$7,623,160 to support 33 infrastructure projects in the province.

Project Title	Maximum CFI Contribution
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University of Alberta

Understanding the Effect of Multi-stressors in Aquatic Environments	\$118,269
Delineating the Mechanisms Driving the Pathogenesis of Crohn's Disease-associated Bacteria	\$253,182
Early Life Antibiotic Exposure: Effects on Neuroendocrine Regulators of Lung Function and the Allergic Airway Response	\$146,402
Understanding Stress Responses in Lymphatic Disorders	\$100,000
Neural Imaging Infrastructure Enabling the Study of Early Brain Development and Neurogenesis In Vivo	\$235,677
Learning-aided Cooperative Navigation: Towards Safe Human-autonomy Interactions in Unstructured and Dynamic Environments	\$100,830
Studying the Fate of Cells through Long term Timelapse Imaging	\$197,396
Quantitative Kinetic Modeling Capability for Tumor PET/MRI, Brain PET/MRI and Cardiac PET/MRI	\$152,979
Electrochemical-chemical Test Platform for Novel Alkali Metal Anode-Based Battery Technologies	\$131,089
Nucleation of Ice and Gas Hydrates	\$199,910
The Roles of Vesicle Trafficking in the Pathogenesis of Acute and Chronic Diseases	\$477,329
Advanced Free Radical Metabolite Analysis	\$413,155
Precision Human Health Laboratory	\$507,115
A Mechanical Tester for Elastomers and Gels with Bioinspired Patterns of Stiffness Gradient	\$76,096
Augustana Movement and Diabetes Laboratory	\$175,452
Facility for Reaction Discovery in Electrocatalysis	\$218,571
16 projects	\$3,503,452

University of Calgary

High Resolution Live Imaging of Yeast to Help Cure what Ails You	\$280,000
Quantum Control of Anti-atoms with Microwave Technologies	\$250,000
Visualizing Human Vascularized Organs-on-Chips to Understand Endotheliitis in Infectious Diseases	\$250,000
Structural and Functional Studies of Protein Kinase-Ion Channel Interactions	\$150,000

INNOVATION

Canada Foundation for Innovation Fondation canadienne pour l'innovation

Intelligent Security Monitoring of Critical Cyber-physical Systems	\$165,000
Role of Bone Marrow Niche in Regulation of Host Immunity against Tuberculosis	\$282,802
Therapeutic Synergy of Surgery, Radiation and STING Immunotherapy in Pre-clinical Models of Sarcoma	\$400,000
An Integrated Ultra Low Latency Networking and Sensing Platform for Metaverses and 6G Applications	\$160,000
Digital Spatial Profiling and Molecular Spatial Imaging for the Precision Medicine in Nephrology Program	\$440,000
Robotic Balance Platforms for Probing Human Standing Balance	\$230,800
Microbiota-host Interactions and the Gut-liver Axis in Non-alcoholic Fatty Liver Disease	\$316,850
Engineering Synthetic Biology Integrated Wearable Medical Devices for Longitudinal and Real-time Health Monitoring	\$78,501
Long-read Sequencing for Genomics of Parasites and Vectors	\$104,600
Design and Additive Manufacturing of Lightweight Nanocrystalline Alloys	\$162,750
Collaborative Multirotor Aerial Vehicles (MAVs) Subject to Disturbances for Precise Maneuvers	\$160,000
15 projects	\$3,431,303

University of Lethbridge

Innovative Brain Imaging Techniques for Aging-Associated Diseases	\$563,466
Building an Integrative Research and Assessment Hub for Language and Communication Development	\$124,939
2 projects	\$688,405

NOTE:

As part of this announcement, an additional \$2,286,948 was awarded under the Infrastructure Operating Fund (IOF), a mechanism that assists institutions with the incremental operating and maintenance costs associated with the new infrastructure.