

## John R. Evans Leaders Fund Backgrounder

### Alberta

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$6,964,180 to support 29 infrastructure projects in the province.

| Project Title | Maximum CFI Contribution |
|---------------|--------------------------|
|---------------|--------------------------|

#### University of Alberta

|  |                    |
|--|--------------------|
| Modelling Retinal Degeneration in African Clawed Frog  | \$251,220          |
| Functional Analysis of Cellular Mechanisms using Live cell Time-lapse Confocal Microscopy                              | \$260,615          |
| Advanced Behavioural and Production Management Research in the Built Environment using Digital and Robotic Technology  | \$118,175          |
| Advancing Health Equity and Reducing Drug-related Harm through Health Systems Innovation Research                      | \$82,209           |
| Integrated Quadruped Robotic Sensing System (IQRSS) for Efficient Monitoring and Management of Critical Infrastructure | \$179,958          |
| Smart Radio Environments based on IoT, 5G and Beyond (B5G)   | \$160,000          |
| DARC Natural Language Processing for Precision Health  | \$290,945          |
| Infrastructure for Advancing Bio-robotics: Towards Robotic Motor Function Assessment and Optimal Personalized Therapy  | \$151,357          |
| Infrastructure to Measure Behaviour and Track Brain Transcription Activity in Drosophila                               | \$211,174          |
| Innovation in Multimodal Imaging to Interrogate Blood Flow, Function, and Metabolism in the Nervous System             | \$663,058          |
| ISERF – Induced Seismic Experimental Research Facility   | \$134,329          |
| Portable Photosynthesis and Gas Analysis System for Innovative Plant-soil-microbial Research                           | \$116,478          |
| Infrastructure for Renewable and Sustainable Biomaterials  | \$318,082          |
| <b>13 projects</b>   | <b>\$2,937,600</b> |

#### University of Calgary

|   |           |
|---|-----------|
| Resilient and Innovative Materials and Structures (RIMS) for Sustainable Infrastructure                             | \$150,000 |
| Designing and Evaluating Novel eXtended Reality User Interfaces for Effective Multi-user Social Interactions        | \$150,000 |
| The Role of Secretory Autophagy in Age-related Chronic Respiratory Disease  | \$250,000 |
| Novel Biplane Fluoroscopy Methods to Advance Knowledge on How Joint Motion and Loads Affect Musculoskeletal Disease | \$270,669 |
| Evaluation of Phenotypes Towards Elucidating Clinical Stability and Acute   | \$263,500 |

# INNOVATION

Canada Foundation for Innovation    Fondation canadienne pour l'innovation

|   |                    |
|---|--------------------|
| Pulmonary Exacerbations in Bronchiectasis   |                    |
| Effect of Different Types of Exercise on Brain Health: Role of Biological Sex and Age                                   | \$75,001           |
| Ultra High Resolution Multiplex Imaging of the Breast Tumor Microenvironment at the Single Cell Level                   | \$470,986          |
| The Impact of Early Life Events on Longterm Imprinting of Humoral Immune Homeostasis                                    | \$250,000          |
| Intravital Imaging of Bacterial Pathogenesis  | \$467,600          |
| Investigating Links Between Physical Activity and Health Among Small-scale Subsistence Societies                        | \$174,908          |
| Integrating Synthetic Microbiology and Materials Engineering to Redefine Biocompatibility at the Host-microbe Interface | \$120,000          |
| Cells to Behaviours: An Integrated Platform for Preclinical Research on Neurodevelopmental Conditions                   | \$84,000           |
| Building Diamond-based Quantum Devices for Sensing and Communication  | \$400,000          |
| Indigenous Interdisciplinary Land-based Research  | \$449,916          |
| Research hub for Allogeneic Cell Therapy  | \$300,000          |
| Intelligent Navigation and Mapping System for Autonomous Driving  | \$150,000          |
| <b>16 projects</b>  | <b>\$4,026,580</b> |

**NOTE:**

As part of this announcement, an additional \$2,089,254 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.