



# PROOF

Centre of | Centre d'  
**EXCELLENCE**

*Biomarker solutions for health care.*

*Biomarqueurs – Solutions en soins de santé.*

The PROOF (Prevention of Organ Failure) Centre is a not-for-profit organization that develops and implements blood-based biomarker tests to better manage patients with heart, lung and kidney risks and failure, and to prevent disease progression. By embracing a cross-disciplinary team of people and bringing all relevant organizations from all sectors together, we will speed up the development of these tests, applying them sooner to improve and save lives.

[www.proofcentre.ca](http://www.proofcentre.ca)

## Welcome to the PROOF Centre of Excellence

Canadians are facing a huge epidemic. Heart, lung and kidney diseases together convey an oppressive growing health burden in Canada and around the world. For the millions of patients suffering, impaired organ function and organ failure have a devastating impact. The socio-economic impact of such organ failure is far from trivial — one in four Canadians is estimated to be at risk.

**Our mission is to discover, develop, commercialize, and implement blood-based biomarker tests in clinical settings to better manage patients with heart, lung, and kidney failure (Figure 1).**

### We are a not-for-profit hub.

We are experienced, proven leaders and cross-disciplinary teams from health care, business, and academia. We put our rich strategic networks and diverse range of expertise and resources to work for the PROOF Centre under the leadership of Dr. Bruce McManus. We are sited at St. Paul's Hospital and hosted by the University of British Columbia in Vancouver, Canada.

The PROOF Centre was established as an NCE Centre of Excellence for Commercialization and Research in 2008, based on over five years of previous success in biomarker discovery and development.

The PROOF Centre of Excellence is supported by the Government of Canada through the Networks of Centres of Excellence Centres of Excellence for Commercialization and Research (CECR) program.



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FIGURE 1:  
The PROOF  
Centre Mission



## We develop blood tests to predict and diagnose organ failure.

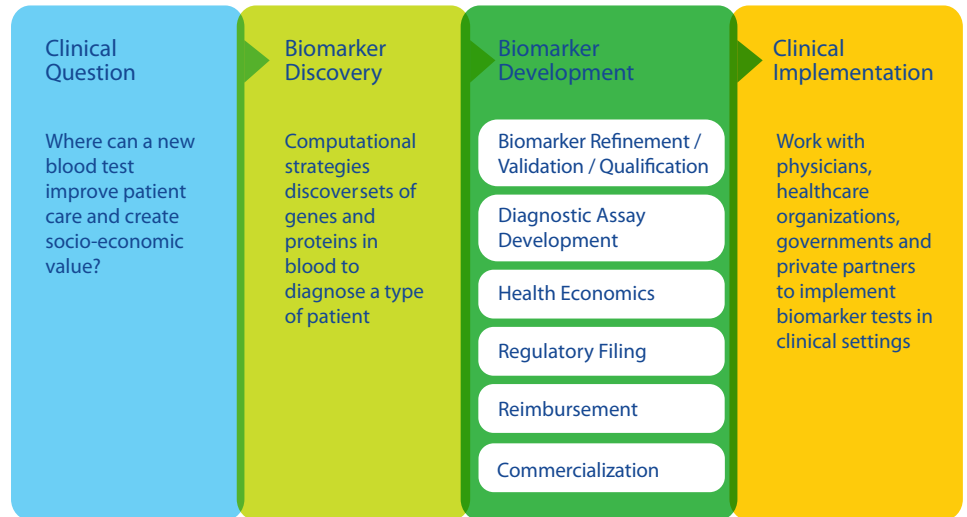
Replacing suboptimal diagnostics with simple, effective blood tests is our goal; this will improve quality of life and health outcomes for patients, help physicians provide patient-centered care, and decrease direct and indirect costs to our healthcare system and our society. Forging commercialization paths for development of top Canadian innovations will also give a much-needed boost to our economic health. The PROOF Centre is focused on developing blood tests for non-invasive diagnosis and prediction of organ failure and immune rejection, allowing the best treatments to be chosen and applied before tissue damage is done. Building on a successful discovery and development pipeline that includes our Biomarkers in Transplantation (BiT) program, currently in validation trials in heart and kidney transplant patients, we are discovering and developing new biomarker tests to diagnose chronic kidney disease, chronic obstructive pulmonary disease, and acute and chronic heart failure.

## We move discovery into the clinic faster.

Bridging the gap from discovery of new diagnostics to their routine use in the clinic is complex. The PROOF Centre's team, infrastructure, assets, experience, and strategy provide a unique set of attributes that overcome barriers and accelerate this process so we can bring health benefits to patients sooner, reduce costs and business risk for our partners,

FIGURE 2:  
The PROOF Centre's  
Biomarker Pathway

From clinical need to clinical implementation.



and relieve our burdened health system promptly. Our strategic pathway (Figure 2) begins with evidence-based medicine, identifying needs within the clinic. This approach helps us focus our time and resources effectively on questions that matter and solutions that will make a difference. Our cross-disciplinary hub of experts and teams enable us to deal with development hurdles as parallel processes that inform each other in real time rather than as a lengthy series of isolated events. Our engagement of diverse stakeholders speeds us over hurdles and hastens successful outcomes. We leverage valuable assets, such as high-technology platforms and patient cohorts, for maximal efficiency.

## We offer value to partners.

Can companion diagnostics speed your development pathway? Are you seeking patient cohorts for your external validation sets? Looking to obtain expert contract services related to biomarkers or organ failure? To find out more about partnering or collaborating, or to learn more about the PROOF Centre, contact:

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## WHAT IS A BIOMARKER?

A biomarker is a biological indicator that can be measured reliably, sensitively and specifically to detect or monitor changes in patient health. At the PROOF Centre, we focus on sets of biomarkers — genes, proteins or metabolites — that can be measured non-invasively in blood.