



Libin Precision Medicine Initiative

2025 Ignite Catalyst Competition

The Libin Precision Medicine Initiative (LPMI) is a flagship initiative of the Libin Cardiovascular Institute that aims to enhance cardiovascular care through patient-centred clinical decision support. The team is focused on enhancing access to multi-domain cardiovascular health data for all stakeholders and strategic partners of the Libin Institute to catalyze research and innovation in data-driven care.

The LPMI team is pleased to announce the completion of Version 1.0 of the LPMI Cardiac Data Model; a curated schema comprising over 850 standardized variable definitions prioritized from core areas of cardiovascular care. This foundational data model has now been generated for over 1 million patients of Southern Alberta who have received cardiac diagnostic services since the year 2000 and will be made accessible to Libin investigators in accordance to Research Ethics Board and Health Systems Access project approvals, and in accordance with the LPMI Terms of Use agreement. Data will be made accessible as de-identified, longitudinally matched data products for target populations as defined by REB approvals. Data categories include patient demographics, cardiac disease states, non-cardiac comorbidities, laboratory test results, non-invasive imaging (echocardiography, cardiac MRI), cardiac catheterization, ECG and Holter, pharmacy data, and clinical outcomes.

Following the successful development of the LPMI Core Data Model v1.0, the team is excited to launch the **LPMI Ignite Catalyst Competition**. This competition aims to support investigators to utilize and demonstrate the value of LPMI-generated data resources, and specifically its Core Data Model to benefit innovative cardiac research and transform cardiovascular care. Funding will be provided to successful applicants or teams to support their work with LPMI experts collaborating closely with awardees to develop and validate targeted data-driven insights or products.



Terms of Reference

Purpose of funding:

The purpose of the Libin Precision Medicine Initiative (LPMI) Ignite Catalyst Competition is to provide consultation, project support, and data product development to select projects with direct relevance to the Libin Cardiovascular Institute and its patient populations.

The Ignite Competition will function to provide a “soft launch” for the completed LPMI pipeline and data-building process, allowing for optimizations in service delivery while providing early opportunities for value delivery to select projects within the LCI research community.

Eligibility:

Applications must include a Principal Member of the Libin Cardiovascular Institute as a primary applicant. Other team members may be from LCI or other institutes/departments as necessary for the success of the proposed project.

Available funds:

Teams may request up to \$25,000 to be used within a 12-month term.

Eligible expenses:

Ignite Catalyst funding may be used to support the operational expenses of initiating and maintaining new research projects. Funds may be used for personnel salaries (trainees, staff), operational expenses (consumables, materials, supplies), and services (statistical services). Funds may also be used to support knowledge translation and mobilization activities, including open access fees for publication.

Ineligible expenses:

Funds are not to be used to supplement existing external grant funding obtained for the proposed project. Funds cannot be used for office furniture, core facilities, or general team supplies and equipment.

Applications:

Applicants must submit a completed application form and attach the following:

- Project summary (max 2 pages)
 - o Summary is inclusive of any figures
- Data variable request list (if known) can be added on an additional page
- References can be added on an additional page
- CCV for primary applicant
- List of collaborators and their role in the project

Support will be offered to all potential applicants, via a recorded info session, FAQs, and mini-consultations to advise applicants on the core inventory and the fit, relevance, and availability of the data needed to meet individual project objectives. This is not a full consultation; full collaborative efforts will begin after Notice Of Award. Supportive documentation and links to these resources can be found on the competition webpage.



Selection Process:

The following criteria will be considered during the selection process:

- Project fit within mandates of the LPMI Program and data available within the Core Data Model
- Evidence of applicants' commitment to the use of cardiac data to support innovative research
- Quality of application via ranking by review panel of cardiac researchers

Award Administration:

Applicants selected for funding will be required to participate in collaborative planning sessions with the LPMI team. The LPMI team will support successful applicants in preparing documentation for REB and HSA submissions to accurately and appropriately describe the LPMI data model, security and privacy measures, mechanisms for data transfer, and all necessary information to demonstrate full compliance with AHS and UC institutional requirements for health data usage.

LPMI will work closely with successful applicants to curate data products to meet specific objectives of the research project and will provide access to these data products after approval from all governing bodies.

Funding will be provided in the form of journal transfer, expense reimbursement, or similar processes within the University of Calgary finance administration guidelines to support eligible staff, service, or compute expenses directly related to the project.

Post award administration:

Successful applicants will be required to participate in project and process review activities during and upon completion of data product delivery to optimize LPMI service delivery. Progress reports will be requested at 6- and 12-months following data product delivery summarizing core deliverables, inclusive of scientific outputs (abstracts, publications), grant funding, and potential for technology transfer. Awardees will be provided with additional communications support and promotional opportunities for their LPMI-supported project.

Deadline for application:

The application deadline is **July 4, 2025** (11:59pm MT) with the Notice of Award (NOA) expected by the end of July 2025.

Electronic submissions should be submitted via the application form link on the competition webpage.

For questions or additional information please contact LibinPrecisionMed@ucalgary.ca.

