**Call for Proposals**2023 Precision Oncology Research Grants

Competitive application deadline is December 23, 2022, 5pm (Pacific Time (PT); Vancouver).

\*Application begins on Page 4 of this document

**Timeline:** Applications due date December 23, 2022 5 pm (PT)

Notice of Invitation January 16, 2023, 5 pm (PT)

Invited Grant Submission March 17, 2023, 5 pm (PT)

Notice of Decision May 19, 2023, 5 pm (PT)

Funding Start June 26, 2023, 5 pm (PT)

**Eligibility:**

Applicant must be a Principal investigator holding an academic position at a Canadian University, Hospital or Healthcare centre.

If project is led by a **basic/fundamental/translational scientist**, the research team must include:

* + one clinician scientist
  + at minimum one breast cancer patient advocate or a local Breast cancer advocacy group
  + artificial intelligence (AI) expertise for data mining and/or management

If project is led by a **clinician**, then the team must include:

* one basic scientist
* at minimum one breast cancer patient advocate or a local breast cancer advocacy group
* artificial intelligence (AI) expertise for data mining and/or management

Projects focused in **Patient Reported Outcomes** must include:

* + at minimum one breast cancer patient advocate or a local breast cancer advocacy group
  + artificial intelligence (AI) expertise for data mining and/or management

**Mandate:**

Research funded by Breast Cancer Canada focuses on precision oncology. Projects are to accelerate the transition from standard approaches for breast cancer treatment, to the new age of personalized medicine.

The grant mandate is divided into four divisions:

*1. Basic Science:*The purpose of basic science research is to increase the understanding of how fundamental biological processes work. The information uncovered by basic science projects lay the groundwork for all other research that follows.

*2. Screening & Detection:*Using new technology to improve screening and detection – with better quality and less invasive test techniques than what we use now. New precision or personalized technology like genomic blood tests that identify breast cancer during screening, and machine learning that assists a clinician for more accurate breast cancer detection. Examples of new precision or personalized technology include genomic blood tests that identifies breast cancer during screening, and machine learning that assists a clinician for higher accuracy of breast cancer detection.

*3. Treatment:*Research where a biomarker has been identified for treatment research and development; or a targeted localized treatment discovery is in early stage of development involving a precision oncology focus.

*4. Patient Reported Outcomes:*Research on the implementation of patient reported outcomes across the spectrum of breast cancer screening and disease management. The data highlights how patients perceive health and treatment effects and how treatments impact outcomes. This shapes treatment and surgical interventions that impact many aspects of a patient’s life.

**Format:**

* Single-spaced Arial or Times New Roman no smaller than 12 pt. Condensed text will not be accepted.
* 2 cm margins
* 2,500 characters (with spaces)
* Do not include tables or figures at the LOI stage.
* Indicate research Division in LOI
* LOI breakdown:
  + Objective: An extensive overview of breast cancer is not necessary. Introduce the problem you aim to solve that has a focus in precision oncology.
  + Methodology: Introduce the specific methods or theoretical approaches to be used. Provide the rationale for using described methods.

Provide details for data acquisition and analysis. Provide details for data management and security.

* + - If animals or human materials, human subjects and/or biohazards, please provide Protocol numbers and Research Ethics Approval numbers. If application is funded, funds will only be released once all documents are received.
  + Impact: provide information about the impact your project will have on improving breast cancer outcomes/survivorship/quality of life.
  + Research Team: Provide information about the principal investigator, co-applicant(s), and all team members. For each member, provide information about their contribution to the project. Include hyperlinks for lab or academic websites.
  + Budget categories
* Email Application and LOI to [**research@breastcancerprogress.ca**](mailto:research@breastcancerprogress.ca)
  + Use filename format: Lastname\_Firstname\_LOI\_BCC2023

**Budget Categories:**

* Category 1: $75,000 over three years ($25,000/year)
* Category 2: $50,000 over two years ($25,000/year)  
  + $125,000 to be awarded per research Division for a total of $500,000 in grant funding

2023 Precision Oncology Research Grant Application

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| --- | --- |
| **Principal Investigator** | |
| Last name: | |
| First name: | |
| Email: | |
| Institute: | |
| Department: | |
| City: | Province: |
|  | |
| **Project Title:** | |
|
| **Grant Division:** identify only one appropriate Division 1 2 3 4 | |
| **Budget Category:** | |
| **Date Submitted:** | |

Please note: Signatures are not required at time of application submission.

2023 Precision Oncology Research Grant   
**Letter of Intent**

**Start LOI here:**