



# Translating new discoveries into clinical applications: the BC Cancer Agency Research Centre investigates causes of cancer, advances in treatment and improvements in how we detect, manage and cure the disease.

## How we serve the people of BC:

- ➔ The BC Cancer Agency is recognized internationally for its advancements in cancer research.
  - ➔ Researchers are working to identify promising new therapies and to improve existing therapies by increasing their effectiveness and reducing side effects.
  - ➔ Research discoveries move quickly from the laboratory bench to the patient's bedside because researchers work closely with their clinical colleagues in all six regional cancer centres to quickly translate clinical research discoveries into new treatments and therapies.
  - ➔ To explore more effective use of health care resources and improved ways of delivering care to a diverse population of patients across the province, researchers also work with physicians, scientists, research technicians and post-graduate students to study health economics and population-based research questions.
- ➔ Funded by the BC Cancer Agency and the BC Cancer Foundation, there are nine research departments and divisions:
    - Cancer Control Research
    - Trev & Joyce Deeley Research Centre in Victoria
    - Experimental Therapeutics
    - Genome Sciences Centre
    - Integrative Oncology
    - Molecular Oncology
    - Terry Fox Laboratory
    - Lymphoid Cancer Research
    - Clinical Research and Clinical Trials

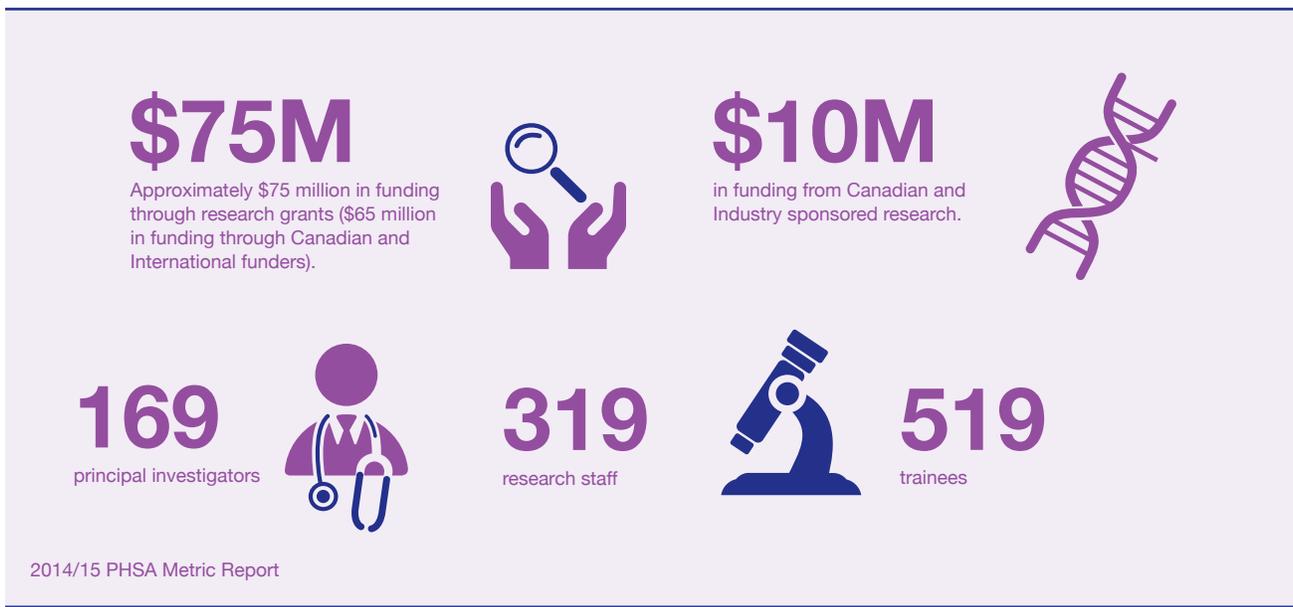
It is focused on:

- 1. Expanding genomic sciences in support of personalized cancer care.**
- 2. Improving knowledge of the causes of cancer and the strategies in prevention.**
- 3. Leveraging discoveries through cancer research by enabling their translation into the clinical setting.**



# The BC Cancer Agency is recognized internationally for its advancements in cancer research:

- ➔ BC Cancer Agency scientists have been listed among Thompson Reuters' World's Most Influential Scientific Minds, ranking among the top one per cent of the most cited for cancer related research.
- ➔ A long term, pan-Canadian research effort that includes BC Cancer Agency scientists is examining how air pollution and the built environment can lead to changes in gene expression that cause chronic health diseases such as metabolic syndrome, which can lead to cancer.
- ➔ Building on the world's largest breast cancer study, BC Cancer Agency scientists have mapped the relationship between cancer mutations and clinical outcomes in more than 2,000 women, providing evidence that categorizing breast cancer should be a precursor before enrollment in clinical trials.
- ➔ The Trev & Joyce Deeley Research Centre is a scientific hub for cancer immunotherapy research in Canada focusing on Adoptive T-Cell Therapy. With a new highly specialized laboratory called a clean room, cancer-fighting T cells will be produced here for many cancer patients across BC.
- ➔ BC Cancer Agency's world-leading Personalized Onco-Genomics program integrates genomic sequencing into patient care and clinical decision-making for individuals with advanced and hard-to-treat cancers. This translational research initiative allows clinicians to identify patient-specific clinical trials and pinpoint less toxic and more effective therapeutic options for individual patients.



**BC Cancer Agency Research Centre**  
675 West 10th Avenue  
Vancouver, BC V5Z 1L3  
604-675-8000

[www.bccrc.ca](http://www.bccrc.ca)  
[www.bccancer.bc.ca](http://www.bccancer.bc.ca)  
[www.phsa.ca](http://www.phsa.ca)

 **BC Cancer Agency**  
CARE + RESEARCH  
*An agency of the Provincial Health Services Authority*