Canadian Pediatric Cancer Genome Consortium (CPCGC)

Research Areas

- **Biomarker Research**
  Diagnostic, Genomic Biomarker
- **Basic Research**

At a Glance

- **Status:** Completed Consortium
- **Year Launched:** 2011
- **Initiating Organization:** BC Cancer Agency
- **Initiator Type:** Health-care organization
- **Location:** North America

Abstract

Characterizing pediatric cancers through comprehensive genome review. Using the genetic information to find new therapies.

Mission

Cancer is the most common cause of non-accidental death in children and remains an unacceptable socioeconomic burden for Canada and Canadian families. A considerable proportion of childhood cancers remain incurable or can only be cured with treatments that leave a child with life-long mental or physical challenges.

The aim of this project is comprehensively interrogate the genomes of four pediatric cancers and possibly discover new targets for therapy for these devastating diseases.

A group of highly accomplished Canadian researchers and clinicians who are experts in childhood cancer and novel DNA sequencing technologies are using “next generation sequencing technology” to scan the entire genomes of each of four of the most challenging childhood cancers known. They will
directly compare the genetic code of primary tumor cells and tumor cells that have spread, or relapsed, in medulloblastoma, osteosarcoma, diffuse intrinsic pontine glioma, and atypical teratoid Rhabdoid tumor, thereby uncovering the genetic abnormalities that allow tumor cells to spread or become resistant to treatment.

Financing

Funding Agencies:


Points of Contact

Karen Novik, Project Manager
Genome Sciences Centre, BC Cancer Agency
Email: knovik@bcgsc.ca
Phone: 604-675-8000 x7983

Alla Sekunova, Projects Coordinator
Genome Sciences Centre, BC Cancer Agency
Email: asekunova@bcgsc.ca
Phone: 604-675-8000 x7977

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