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Vancouver Prostate Centre Microarray Facility

Status	Current
Category	S&T Platform
Genome Centre	Genome British Columbia
Platform Leader	Colin C. Collins
Web Site	www.mafpc.ca

Platform Description

The Vancouver Prostate Centre's Microarray Facility is a multi-platform facility that provides research projects with services ensuring the successful design, execution and interpretation of microarray experiments. In addition to supporting the Vancouver Prostate Centre's internal research programs, the facility provides its services to external academic clients, government and the private sector. The team is committed to excellence and provides extensive expertise in experimental design using microarray technologies.

The facility serves as the Genome BC Microarray Platform and supports research projects that make significant contributions to both the BC and Canadian economies, including the growth and enhancement of local biotechnology companies. The facility offers commercial (Agilent, Illumina and NimbleGen) whole-genome and custom high-density microarrays for gene expression, miRNA, copy number variation and epigenetic studies. Exon capture arrays were recently added which when integrated with next generation sequencing technologies, will make whole genome and targeted re-sequencing studies possible.

The Microarray Facility is recognized as an expert in the design and use of custom spotted cDNA, oligonucleotide and protein microarrays, and in the analysis of the resulting data. Moreover, the facility has added software that allows seamless cross-platform integration and analysis of expression, genomic and next generation sequence data making extremely powerful and comprehensive studies possible.