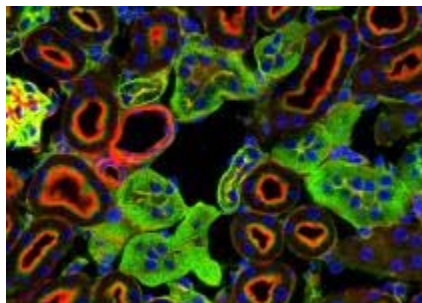


Princess Margaret Genomics Centre

Genomics core facility offering genomics and validation applications. Facility led by Neil Winegarden.



Service Department(s): Research Communications

Overview

- Certified Agilent service provider and authorized Affymetrix service provider
 - Core facility for Illumina, ION Torrent, Luminex and NanoString Technologies
 - Completed over 1,100 research projects between 2007 and 2014
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Services

- Deep Sequencing: Exome-Seq, ChIP-Seq, Methyl-Seq, RNA-Seq, Targeted Resequencing
 - Data analysis and informatics support for NGS
 - Sequencing library preparation
 - Affymetrix GeneChip (Gene expression, all-exon arrays, SNP arrays)
 - Agilent (Gene expression, arrayCGH, ChIP-on-Chip and methylation, microRNA arrays)
 - Illumina (whole genome and genotyping) BeadChips
 - Luminex multiplex analysis of biomarkers (cytokines, chemokines, signalling factors, etc.)
 - NanoString (Amplification-free quantitative validation of gene expression and CNV studies)
 - Quantitative PCR, Cancer biomarker and CNV studies
 - Gene expression (mRNA and miRNA) services
 - ChIP-on-chip, DNA methylation and epigenetics services
 - Genotyping (CNV and SNP) services
 - Experimental design and bioinformatics consultation
 - Microarray data analysis, informatics and data mining
 - Microarray imaging and quantification
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Using the Facility

- Products and services available to all UHN researchers and external academic groups. Some services also available to non-academic organizations.

Usage Arrangements

- Fee for service
- Collaborations in certain cases
- For additional pricing information: <http://www.pmgenomics.ca/>

Sample Preparation

See Protocols: <http://www.pmgenomics.ca/> (link is external).

Available Equipment

- High-throughput Sequencers (Illumina HiSeq 2000 and Ion Torrent Proton)
 - Scanner (Agilent, 2-micron high resolution)
 - Scanner (Affymetrix GeneChip scanner and Illumina iScan system)
 - Luminex (Bio-Rad Bio-Plex reader and bead-based multiplexing technology)
 - NanoString nCounter System (Digital amplification-free gene expression system)
 - Digital PCR (Bio-Rad QX200 Droplet Digital PCR System)
 - Fluorescent Plate Readers (Beckman Coulter Multimode Detector and Tecan Infinite 200 PRO reader)
 - Bioanalyzer (Agilent 2100 Bioanalyzer and 2200 TapeStation)
 - NanoDrop 1000 (NanoDrop)
 - Inkjet array printer (Arrayjet, non-contact inkjet printer for protein/peptide microarrays)
 - Microarray printer (Contact printer using Stealth pins)
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Quick Links

- [Webpage](#)
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