McGill Applied Genomics Innovation Core (MAGIC)

Partners for Advancing Genomics Research

Cores and Supported Applications

CORES	ACTIVITY	TECHNOLOGY / ACTIVITY
Production Genomics	Whole Genome Sequencing	Illumina NovaSeq
	Exome / Targeted Capture Sequencing	Illumina NovaSeq
	Whole Genome Bisulfite Sequencing (WGBS)	Illumina NovaSeq
	RNA-Seq / miRNA-Seq	Illumina NovaSeq
	ChIP-Seq, ChIPmentation, ATAC-Seq	Illumina NovaSeq
	Expression Arrays / Genotyping	Illumina iScan / Affymetrix GeneTitan
Advanced Genomics Technologies	10X Genomics Single-cell applications	10X Genomics / Illumina NovaSeq / Complete Genomics
	Long-reads sequencing	Oxford Nanopore / PacBio
	SmartSeq2 Single-cell RNAseq	Illumina NovaSeq
	Protein expression	10X Genomics Visium
	Hi-C	Illumina NovaSeq
Biomarker	Spatial genomics	Nanostring GeoMx
	Immunoassay-based detection of biomarkers	Olink Proteomics
	High-throughput aptamer-based proteomics	SomaLogic
	LC/MS (Liquid Chromatograph-Mass Spectrometry)	Shimadzu
	GC/MS (Gas Chromatograph-Mass Spectrometry)	Shimadzu
Microbial Genomics	Amplicon sequencing and metagenomics	Illumina MiSeq
Canadian Centre for Computational Genomics	Bioinformatics support	Technology Development and Analysis

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