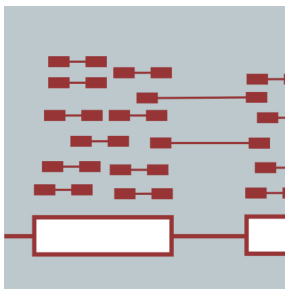# bioinformatics.ca

2025 Workshop Program
Canadian Bioinformatics Workshop Series

REGISTRATION AWARDS AVAILABLE

RNA-seq and Single-Cell RNA-seq Analysis

RNA-seq Analysis

Date: July 7-9, 2025
Location: Ottawa, Ontario AND Edmonton, Alberta

Course Description

High-throughput sequencing of RNA libraries (RNA-seq) has become increasingly common and has become the industry standard for transcriptome profiling. When processed appropriately, RNA-seq data has the potential to provide an exceptionally rich view of the transcriptome. The CBW has developed a 3-day course providing an introduction to bulk RNA-seq data analysis followed by integrated tutorials. The tutorials are designed as self-contained units that include example data (Illumina paired-end RNA-seq data) and detailed instructions for installation of all required bioinformatics tools (HISAT, StringTie, etc.).

Single-Cell RNA-seq Analysis

Date: July 10-11, 2025
Location: Edmonton, Alberta AND Ottawa, Ontario

Course Description

Single cell sequencing of RNA libraries (scRNA-seq) is a major scientific breakthrough that enables the transcriptomic study of cellular and tissue heterogeneity, in contrast to traditional bulk tissue transcriptomics methods. While many concepts are shared between scRNA-seq and bulk RNA-seq computational analysis workflows, there are many new scRNA-seq analysis concepts and methods. This workshop provides an introduction to scRNA-seq data analysis with integrated tutorials demonstrating the use of current scRNA-seq analysis tools.

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