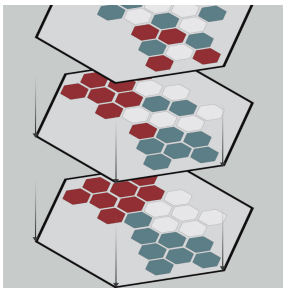


2025 Workshop Program

A Panoramics Enlighten-me Chapter Event
Part of the Canadian Bioinformatics Workshop Series

Introductory Spatial 'Omics Analysis: Visium HD



Date and Location

February 20-21, 2025 - Toronto, Ontario AND Online

Priority will be given to brain researchers located in Canada. Please note that virtual participants will be supported by dedicated virtual TAs but may not have the same learning experience as in-person participants.

Course Description

This introductory course will focus on developing and analysing experiments for the Visium HD platform. The workshop will cover the theory behind Visium HD technology and provide valuable advice on how to prepare for your experiment, including tissue preparation. The training will move along a series of necessary fundamental computational steps required in transforming your raw dataset into a biologically meaningful format, followed by analysis steps that will guide the participant on how to perform biological queries. By the end, participants will be able to:

- Prepare samples for Visium HD processing by a core facility
- Perform basic pre-processing and computational transformations required for analysis
- Understand the theory behind spatial and non-spatial clustering methods and their applications
- Carry out differential expression analysis statistical testing
- Integrate/complement images with gene expression datasets
- Understand the limitations of bins and scales on analysis

Funding for this workshop is provided by the Brain Single Cell Initiative. The Brain Single Cell Initiative has been made possible by the Canada Brain Research Fund (CBRF), an innovative arrangement between the Government of Canada (through Health Canada) and Brain Canada Foundation, and University Health Network.

About This Collaboration

The **Brain Single Cell Initiative** is making single-cell and spatial genomics technology, along with scientific and bioinformatics support, available to brain researchers through the Princess Margaret Genomics Centre.

Panoramics – A Vision is a pan-Canadian working cluster for spatial and single cell multi-omics analyses.

Bioinformatics.ca is the home of the Canadian Bioinformatics Workshops, Canada's leading provider of short-form training in computational biology and bioinformatics.

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