

Early Registration Fee
Available

Limited to 30 participants
per workshop

 bioinformatics.ca

Canadian Bioinformatics Workshop Series

Awards available for CBW workshops

Bioinformatics for Cancer Genomics



Dates

March 12 - 17, 2018 - Cold Spring Harbor Laboratory, NY

Faculty

Andrew McPherson, Trevor Pugh, Fouad Yousif, Robin Haw, Mark Phillips, Sorana Morrissy, Brian O'Connor, George Mihaiescu, Christina Yung, Francis Ouellette, Juri Reimand, Anna Goldenberg, Jared Simpson, and Lincoln Stein

Course Objectives

Cancer research has rapidly embraced high throughput technologies and Cloud computing into its research. Large amounts of data are being created from various microarray, tissue array, and next generation sequencing platforms. Dedicated compute clouds such as the Cancer Genome Collaboratory facilitate complex analyses on big cancer data sets from projects hosting their data in the Cloud, such as the ICGC and PCAWG. Now more than ever, having the informatic skills and knowledge of available bioinformatic resources specific to cancer and how to access and use available data sets in the Cloud is critical.

This **6-day workshop** will cover the key bioinformatics concepts and tools required to analyze cancer genomic data sets and access and work with data sets in the Cloud. Participants will gain experience in genomic data visualization tools, which will be applied throughout the development of the skills required to analyze cancer -omic data for gene expression, genome rearrangement, fusion detection, somatic mutations and copy number variation. The workshop will conclude with analyzing and conducting pathway analysis on the resultant cancer gene list and integration of clinical data.

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course_info@bioinformatics.ca

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