

Early Registration Fee  
\$700 + tax

Late Registration Fee  
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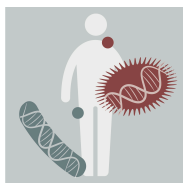
Limited to 30 participants  
per workshop

 bioinformatics.ca

# Canadian Bioinformatics Workshop Series

Registration and Travel Awards Available

## Analysis of Metagenomic Data



### Date

June 5-7, 2018 - Toronto, Ontario

### Faculty

Fiona Brinkman, Will Hsiao, Morgan Langille, Rob Beiko, and John Parkinson

### Course Objectives

Metagenomics, the sequencing of DNA directly from a sample without first culturing and isolating the organisms, has become the principal tool of “meta-omic” analysis. It can be used to explore the diversity, function, and ecology of microbial communities. The CBW has developed a **three-day workshop** providing an introduction to metagenomic data analysis followed by hands-on practical tutorials demonstrating the use of metagenome analysis tools. The tutorials are designed as self-contained units that include example data and detailed instructions for installation of all required bioinformatics tools.

Participants will gain practical experience and skills to be able to:

- Design appropriate microbiome-focused experiments;
- Understand the advantages and limitations of metagenomics analysis;
- Devise an appropriate bioinformatics workflow for processing and analyzing metagenomic sequence data (marker-gene, shotgun metagenomics, and metatranscriptomics data);
- Apply appropriate statistics to undertake rigorous data analysis;
- Visualize datasets to gain intuitive insights into the composition and/or activity of their data set.

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