



CBW-IMPACTT Microbiome Analysis Workshop

Education Classrooms Block (EDC) 179
2750 University Way NW, University of Calgary
Calgary, AB, Canada, T2N 4V8

Wednesday – July 05, 2023

08:30 – 09:00 Arrivals & Check-In

Module 1

- 09:00 – 09:30 **Lecture: Introduction to Microbiome Studies**
Instructor: Dr. John Parkinson
- 09:30 – 10:00 **Student Intros 1**
- 10:00 – 10:30 **Lab: Introduction to Cloud Computing**
Instructors: Dr. Hena Ramay & Zhibin Lu

10:30 – 10:45 AM Break

Module 2

- 10:45 – 11:45 **Lecture: Marker Gene Taxonomic Analysis (16S)**
Instructor: Dr. Morgan Langille
- 11:45 – 12:30 **Lab: Marker Gene Taxonomic Analysis (16S)**
TA: Dr. Robyn Wright

12:30 – 13:30 Lunch Break + Student Intros 2

Module 2 (continued)

- 13:30 – 14:30 **Lab: Marker Gene Taxonomic Analysis (16S)**
TA: Dr. Robyn Wright

Module 3

- 14:30 – 15:30 **Lecture: Stats & Visualization**
Instructor: Dr. Hena Ramay

15:30 – 15:45 PM Break

Module 3 (continued)

- 15:45 – 17:00 **Lab: Stats & Visualization**
Instructor: Dr. Hena Ramay & Dr. Robyn Wright

17:00 End of Day

18:00 Workshop Social @ Banquet Bar (3953 University Ave NW, Calgary, AB)



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Module 4

09:00 – 10:15 **Lecture: Metagenomic Sequencing**
Instructor: Dr. Morgan Langille

10:15 – 10:30 AM Break

Module 4 (continued)

10:30 – 12:30 **Lab: Metagenomic Sequencing**
TA: Dr. Robyn Wright

12:30 – 13:30 Lunch Break + Student Intros 3

Module 5

13:30 – 14:30 **Lecture: Metagenome Assembly & MAGs**
Instructor: Dr. Laura Sycuro

14:30 – 15:30 **Lab: Metagenome Assembly & MAGs**
TAs: Dr. Kevin Muirhead & Dr. Hena Ramay

15:30 – 15:45 PM Break

Module 5 (continued)

15:45 – 17:00 **Lab: Metagenome Assembly & MAGs**
TAs: Dr. Kevin Muirhead & Dr. Hena Ramay

17:00 End of Day



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Friday – July 07, 2023

08:30 – 09:00 Arrivals

Module 6

09:00 – 10:00 **Lecture: Metatranscriptomics**
Instructor: Dr. John Parkinson

10:00 – 10:15 AM Break

Module 6 (continued)

10:15 – 12:15 **Lab: Metatranscriptomics**
Instructor: Ryan Chieu

12:15 – 13:00 Lunch Break

Module 7

13:00 – 14:00 **Lecture: Sample Collection & Biases**
Instructor: Dr. Laura Sycuro

Module 8

14:00 – 15:00 **Lecture: Clinical Trial Design**
Instructor: Dr. Anita Kozyrskyj

15:00 – 15:30 **Survey & Closing Remarks**

15:30 End of Workshop