

Virtual - Introduction to Microbial Community Analysis

October 27th – 29th The Jackson Laboratory for Genomic Medicine, Farmington CT

At the end of this workshop, participants will be able to:

- Explain what the microbiome is and why it is an important research topic
- Identify pitfalls in experimental design
- Contrast the information that can be provided by several microbiome analysis methods
- Execute basic genomic analysis scripts
- Describe new opportunities and future directions of microbiome research

Tuesday, October 27th

Pre-Recorded	Introduction to Unix Dave Mellert, Ph.D. Manager, IT Applications
Pre-Recorded	Introduction to R Sandeep Namburi Cloud Systems Analyst
1:00 pm	Unix and R Q&A Session Dave Mellert, Ph.D. and Sandeep Namburi

Wednesday, October 28th

Pre-Recorded

Course Introduction Julia Oh, Ph.D. Associate Professor

Pre-recorded	Microbial Genomics Overview Mark Adams, Ph.D. Professor & Director, Microbial Genomic Services
Pre-recorded	Methods & Study Design Julia Oh, Ph.D. Associate Professor
Pre-Recorded	Introduction to 16S Ribosomal RNA Sequence Analysis Mark Adams, Ph.D. Professor & Director, Microbial Genomic Services
1:00 pm	Live Instructor & Participant Introduction Discussion Session w/Speakers
2:00 pm	Workshop: 16S rRNA Analysis Using QIIME2 Preeti Bais, Jacquelynn Benjamino, Lauren Long & Sai Lek

Thursday, October 29th

Pre-Recorded	Microbial Isolates & Comparative Genomics Mark Adams, Ph.D. Professor & Director, Microbial Genomic Services
Pre-Recorded	Whole Genome Shotgun Metagenomics Julia Oh, Ph.D. Associate Professor
Pre-Recorded	Introduction to Statistical Analyses Julia Oh, Ph.D. Associate Professor
Pre-Recorded	Advanced Topics Julia Oh, Ph.D. Associate Professor
1:00pm	Discussion Session & Introduction to Workshop Instructors
2:00pm	Workshop: Shotgun Metagenomics Preeti Bais, Wei Zhou & Akintunde Emiola