

### USF Genomics Program/Omics Hub: 3-Day Microbiome Data-Analysis Workshop agenda

Day	Date	Time	Genomics Computational Training Agenda	Instructor
Day 1	4/7/2021, Wed	9:00 AM - 9:10 AM	Meeting open in Blackboard Collaborate Ultra <a href="https://us.bbcollab.com/guest/2a6d9a2954034856b564c85272797675">https://us.bbcollab.com/guest/2a6d9a2954034856b564c85272797675</a>	Janelle Donglasan
		9:10 AM - 9:15 AM	Welcome	USF Genomics Faculty: Dr. Rays Jiang
		9:15 AM - 9:30 AM	Instructor introductions; participant-polling	Training Participants
		9:30 AM - 9:45 AM	Introduction: Workshop overview & USF Omics Hub	Dr. Jenna Oberstaller
		9:45 AM - 10:00 AM	Introduction: USF Genomics Core & Sequencing services	Dr. Min Zhang
		10:00 AM - 10:15 AM	Break	
		10:15 AM - 12:00 PM	Introduction to microbiome data analysis	Dr. Anujit Sarkar
		12:00 PM - 1:00 PM	Lunch Break	
		1:00 PM - 1:30 PM	Best practices for microbiome sample-handling and nucleic acid-processing	Dr. Ryan McMinds
		1:30 PM - 2:00 PM	Statistical considerations for microbiome studies	Dr. Ryan McMinds
		2:00 PM - 2:45 PM	Further considerations for microbiome-study experimental design	Swamy Rakesh Adapa, MS
		2:45 PM - 3:00 PM	Break	
		3:00 PM - 4:00 PM	Further considerations for microbiome-study experimental design	Swamy Rakesh Adapa, MS
		4:00 PM - 4:45 PM	Microbiome data-analysis visualization: An overview	Dr. Justin Gibbons
		4:45 PM - 5:00 PM	Closing Remarks	Dr. Jenna Oberstaller, Dr. Rays Jiang
Day 2	4/8/2021, Thurs	9:00 AM	Meet in Blackboard Collaborate Ultra <a href="https://us.bbcollab.com/guest/81cbe8c47f8e4a7d8d3c4f8d801ce0a9">https://us.bbcollab.com/guest/81cbe8c47f8e4a7d8d3c4f8d801ce0a9</a>	Janelle Donglasan
		9:15 AM - 9:30 AM	R Overview	Dr. Jenna Oberstaller
		9:30 AM - 10:30 AM	Introduction to R and data-plotting	Dr. Charley Wang
		10:30 AM - 10:45 AM	Break	
		10:45 AM - 12:00 AM	Introduction to R and data-plotting	Dr. Charley Wang
		12:00 PM - 1:00 PM	Lunch Break	
		1:00 PM - 2:45 PM	Taxonomic Analysis: Generating Operational Taxonomic Units (OTU)	Dr. Anujit Sarkar
		2:45 PM - 3:00 PM	Break	
		3:00 PM - 4:00 PM	Taxonomic Analysis: Generating Operational Taxonomic Units (OTU)	Dr. Anujit Sarkar
		4:00 PM - 5:00 PM	Hands-on practice	Microbiome Training Instructors
Day 3	4/8/2021, Fri	9:00 AM	Meet in Blackboard Collaborate Ultra <a href="https://us.bbcollab.com/guest/81cbe8c47f8e4a7d8d3c4f8d801ce0a9">https://us.bbcollab.com/guest/81cbe8c47f8e4a7d8d3c4f8d801ce0a9</a>	Janelle Donglasan
		9:10 AM - 10:30 AM	Taxonomic Analysis: Visualization Part I	Dr. Justin Gibbons
		10:30 AM - 10:45 AM	Break	
		10:45 AM - 12:00 AM	Taxonomic Analysis: Visualization Part I	Dr. Justin Gibbons
		12:00 PM - 1:00 PM	Lunch Break	
		1:00 PM - 2:45 PM	Taxonomic Analysis: Visualization Part II	Dr. Thomas Keller
		2:45 PM - 3:00 PM	Break	
		3:00 PM - 4:15 PM	Taxonomic Analysis: Machine learning	Dr. Thomas Keller
		4:15 PM - 5:00 PM	Hands-on practice	Microbiome Training Instructors
		5:00 PM - 5:30 PM	Q&A session; Discussion & Feedback with Genomics Faculty; Certificate of Completion	Microbiome Training Instructors