

Microbiome Initiative Data Sciences Workshop
Lawrence Berkeley National Laboratory, Building 59, Room 3101

Coffee and pastries available from 8:45 AM

9:15 Introduction and overview of initiative goals (Britt Koskella)

Lightning Talks I

9:30 Joint Genome Institute/National Microbiome Data Center (Emiley Eloie-Fadrosh)

10:00 Persistent sample identifiers and documentation standards to support efficient sample management, interoperability, and data reuse in Environmental Systems Science (Joan Damerow)

10:15 Small group discussion

Lightning Talks II

10:45 Metabolite annotation and genome integration (Hanneke Leegwater)

11:00 Bacterial and metagenome GWAS (Hector Roux de Bezieux)

11:15 Explainable AI (XAI) to learn from multi-omics analysis of microbiomes (Ben Brown)

11:30 Small group discussion

Lightning Talks III

12:00 The relationship between aboveground diversity and AMF on agroecosystems (Aidee Guzman)

12:15 Investigating the origin of animal microbiome using a colonial choanoflagellate from Mono Lake (Alain Garcia De Las Bayonas)

12:30 Interactions between plants and root-associated microbiomes (Daniel Caddell)

12:45 Lunch

Workshops

1:30 Microbiome and phylogenomics resources in KBase (Dylan Chivian)

2:00 Integrated Microbial Genomes (Rekha Seshadri)

2:30 Metatranscriptomes: system-level dynamics, differential expression and viruses (Ella Sieradzki)

3:00 Viral genomes from metagenomes (Simon Roux)

3:30 Large group discussion