High-Resolution Microbiome Informatics Meeting (2015)

MARINE BIOLOGICAL LABORATORY, WOODS HOLE

This meeting is funded by a Marine Biological Laboratory - University of Chicago Collaboration Award

Thursday (March, 19th) at the MBL Club (100 Water Street, Woods Hole, MA 02543)

9:00 - 9:10	Welcome	
9:10 - 9:50	Sarah P. Preheim (JOHNS HOPKINS UNIVERSITY) "Distribution-based clustering: using ecology to refine the operational taxonomic unit"	
9:50 - 10:30	Mikhail Tikhonov (Harvard University) "Interpreting 16S metagenomic data without clustering to achieve sub-OTU resolution"	
10:30 - 11:10	Amnon Amir (University of Colorado) "Deblurring 16S sequencing data"	
11:10 - 11:50	A. Murat Eren (Marine Biological Laboratory) "Using information theory to find ecologically meaningful units in marker gene amplicons"	
Lunch Break		
1:00 - 1:20	Jed A. Fuhrman (University of Southern California) "Benefits of higher phylogenetic resolution in marine microbial ecology"	
1:20 - 1:40	Jack A. Gilbert (University of Chicago) "Invisible influence: examining microbial activity"	
1:40 - 2:00	Pawel Gajer (University of Maryland) "Ribotyping with Restricted Boltzmann Machines"	
2:00 - 2:20	Inés Martínez (University of Alberta) "What determines microbiome responsiveness towards a non-digestible oligosaccharide?"	
2:20 - 2:40	Floyd E. Dewhirst (FORSYTH INSTITUTE) "The human oral microbiome database: Importance of speciation in NGS era"	
Tea/Coffee Break		
3:00 - 3:45	Discussion: Making new approaches more accessible	
Tea/Coffee Break		
4:00 - 4:45	Discussion: Outline of an opinion article	
Dinner		
7:00 - 9:00	MBL Club will be open for group discussions	

Friday (March, 20th) at the MBL Club (100 Water Street, Woods Hole, MA 02543)

9:00 - 9:30	Jeremiah J. Faith (The Mount Sinai Hospital) "Experimental advances for improving microbiome strain-tracking resolution and the computational opportunities they present"	
9:30 - 10:00	Jessica L. Mark Welch (MARINE BIOLOGICAL LABORATORY) "Connecting high-resolution informatics to spatial organization through imaging"	
10:00 - 10:30	Christopher Quince (University of Warwick) "Reconstruction of genomes from metagenomes using coverage and composition"	
Tea/Coffee Break		
10:45 - 12:00	Final words and future plans	
Lunch		