Virtual Workshop on Long Read Sequencing
April 6 – May 25, 2021

April 6 – Keynote

12:00 – 1:00PM EDT
Long-Read Sequencing of Complex Structurally Variant Regions
Evan Eichler, Ph.D., University of Washington

April 13 - Resolving Complex Genomic Regions

12:00 – 1:00 PM EDT
Dark Matter of the Human Genome
Karen Miga, Ph.D., University of California, Santa Cruz

April 20 - Personal and Population-Level Genomes

12:00 – 1:00 PM EDT
Personal to Population-Scale Genomes
Shawn Levy, Ph.D., HudsonAlpha Institute for Biotechnology

April 27 - Epigenetics

12:00 – 12:20 PM EDT
A Comprehensive Comparison of Tools for Detecting DNA Methylation Using Nanopore Long-Read Sequencing Data
Sheng Li, Ph.D., The Jackson Laboratory
12:20 – 12:40 PM EDT
Kin Fai Au, Ph.D., *The Ohio State University*

**May 4 - Transcriptomics**

12:00 – 12:20 PM EDT
Ali Mortazavi, Ph.D., *University of California, Irvine*

12:20 – 12:40 PM EDT
Bulk and Single-Cell Isoform Sequencing Using PacBio Long Reads
Elizabeth Tseng, Ph.D., *Pacific Biosciences*

12:40 – 1:00 PM EDT
Chee Hong Wong, M.S., *The Jackson Laboratory*

**May 11 – Applications to COVID-19**

12:00 – 1:00 PM EDT
FDA SEQC2 Studies of Long and Short DNA and RNA Sequencing
Christopher Mason, Ph.D., *Weill Cornell Medicine*

**May 18 – Emerging Technologies**

12:00 – 12:20 PM EDT
Ultra Long Nanopore Sequencing Using Nanobind Magnetic Disks
Kelvin Liu, Ph.D., *Circulomics*

12:20 – 12:40 PM EDT
Catherine Brownstein, MPH, Ph.D., *Boston Children’s Hospital*

12:40 – 1:00 PM EDT
Tom Chen, Ph.D., *Universal Sequencing*
May 25 – Panel Discussion

12:00 – 1:00 PM EDT
Panel on "The Future of Long-Read Sequencing and Genomic Technology Development"
Chia-Lin Wei, Ph.D., The Jackson Laboratory
Melissa Smith, Ph.D., University of Louisville
Adam Phillippy, Ph.D., National Institutes of Health
Michael Schatz, Ph.D., Johns Hopkins University
Michael Snyder, Ph.D., Stanford Center for Genomics and Personalized Medicine