



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

April 6 – Keynote

Moderated by Rachel Goldfeder, The Jackson Laboratory

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

Moderated by Feyza Yilmaz, *The Jackson Laboratory*

12:00 – 1:00 PM EDT

Telomere-to-Telomere Chromosome Assemblies: New Insights Into Genome Biology & Structure

Karen Miga, Ph.D., *University of California, Santa Cruz*

April 20 - Personal and Population-Level Genomes

Moderated by Liang Gong, *The Jackson Laboratory*

12:00 – 1:00 PM EDT

Personal to Population-Scale Genomes

Shawn Levy, Ph.D., *HudsonAlpha Institute for Biotechnology*

April 27 – Epigenetics

Moderated by Ziwei Pan, *The Jackson Laboratory*



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*

12:40 – 1:00 PM EDT

Winston Timp, Ph.D., *Johns Hopkins University*

May 4 – Transcriptomics

Moderated by Ziwei Pan, *The Jackson Laboratory*

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

The Plasticity of SARS-CoV-2 beyond Simple Nucleotide Polymorphism

Chee Hong Wong, M.S., *The Jackson Laboratory*

May 11 – Applications to COVID-19

Moderated by Gabriel Rech, *The Jackson Laboratory*

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

Moderated by Simon Lesbirel, *The Jackson Laboratory*

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

Long Read Applications With Linked Reads

Tom Chen, Ph.D., *Universal Sequencing*

May 25 – Panel Discussion

Moderated by Chia-Lin Wei, *The Jackson Laboratory*

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*