Workshop on Long-Read Sequencing
at The Jackson Laboratory for Genomic Medicine, Farmington, CT

June 23 - 26, 2020

EVENT SCHEDULE

Tuesday, June 23

8:00 AM     Registration Opens

8:30 AM     Introduction to Long-Read Sequencing Technologies
Jeremy Charette, B.S., The Jackson Laboratory

9:30 AM     Extracting High Molecular Weight DNA
Jeremy Charette, B.S., The Jackson Laboratory

12:00 PM    Lunch & Presentation
Kyle Luttgeharm, Ph.D., Agilent Technologies

1:00 PM     Long-Read Library Preparations & PacBio Express Iso-Seq Library Preparation
Chris Kuhlberg, M.S., The Jackson Laboratory

3:00 PM     Coffee Break

3:15 PM     Sequencing Overview & Oxford Nanopore Rapid DNA Preparation and Sequencing
Jennifer Idol, M.S., The Jackson Laboratory

5:15 PM     Dinner

Wednesday, June 24

8:15 AM     Registration Opens

9:00 AM     Welcome
Rachel Goldfeder, Ph.D., The Jackson Laboratory

Session 1 – Keynote

9:15 AM     Evan Eichler, Ph.D., University of Washington
Session 2 – Personal to Population-Scale Genomes
10:00 AM  Michael Snyder, Ph.D., Stanford University
10:20 AM  Tina Graves-Lindsay, M.S., Washington University in St. Louis
10:40 AM  Charles Lee, Ph.D., The Jackson Laboratory
11:00 AM  Coffee Break

Session 3 – Dark Matter of the Human Genome
11:40 AM  Barbara Mellone, Ph.D., University of Connecticut
12:00 PM  Karen Miga, Ph.D., University of California, Santa Cruz
12:20 PM  Ting Wang, Ph.D., Washington University in St. Louis
12:40 PM  Lunch

Session 4 – Transcriptomics
1:40 PM  Hagen Tilgner, Ph.D., Weill Cornell Medicine
2:00 PM  Jianhua Luo, M.D., Ph.D., University of Pittsburgh
2:20 PM  Liz Tseng, Ph.D., Pacific Biosciences
2:40 PM  Quentin Gouil, Ph.D., Walter and Eliza Hall Institute of Medical Research
3:00 PM  Coffee Break

Session 5 – Cancer
3:30 PM  Mike Schatz, Ph.D., Johns Hopkins University
3:50 PM  Chia-Lin Wei, Ph.D., The Jackson Laboratory
4:10 PM  Richard Koche, Ph.D., Memorial Sloan Kettering Cancer Center
4:30 PM  Poster Session & Sponsor Exhibition

Thursday, June 25

Session 6 – Sample Prep
9:00 AM  TBD, New England Biolabs
9:20 AM  Miten Jain, Ph.D., University of California, Santa Cruz
9:40 AM  Chris Boles, Ph.D., Sage Sciences
10:00 AM  Kelvin Liu, Ph.D., Circulomics, Inc.
10:20 AM  Coffee Break

Session 7 – Computational Biology
11:00 AM  Adam Phillippy, Ph.D., National Institutes of Health
11:20 AM  Fritz Sedlazeck, Ph.D., Baylor College of Medicine
11:40 AM  Justin Zook, Ph.D., National Institute of Standards and Technology
Session 8 – Selected Abstracts
12:00 PM TBD
12:15 PM TBD
12:30 PM TBD
12:45 PM Lunch with Women in Science Network

Session 9 – Epigenomics & Epitranscriptomics
1:45 PM Winston Timp, Ph.D., Johns Hopkins University
2:05 PM Sheng Li, Ph.D., The Jackson Laboratory
2:25 PM Kin Fai Au, Ph.D., Ohio State University

Session 10 – Microbiome
2:45 PM Eric Brown, Ph.D., Food and Drug Administration
3:05 PM Ami Bhatt, M.D., Ph.D., Stanford University
3:25 PM Mark Adams, Ph.D., The Jackson Laboratory
3:45 PM Coffee Break

Session 11 – Long-Reads in the Clinic
4:15 PM Steve Lincoln, B.S., InVitae
4:35 PM Melissa Smith, Ph.D., Mount Sinai
4:55 PM Peter Robinson, M.D., M.Sc., The Jackson Laboratory

Session 12 – Closing Keynote
5:15 PM TBD

6:15 PM Closing Celebration & Dinner

Friday, June 26

Optional Day 4A – Bioinformatics Analysis Tutorial
9:00 AM – 3:30 PM Hands-on tutorials and small projects: considerations for processing ONT and PacBio data (SV detection, de novo assembly, isoform identification)

Optional Day 4B – Hands-on Wetlab Tutorial
8:30 AM Introduction to Long-Read Sequencing Technologies
Jeremy Charette, B.S., The Jackson Laboratory
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