

# Bioinformatics Workshop Agenda – June 27, 2017

Hosted by the Genomics Resource Center,  
University of Maryland School of Medicine



**THE LEADER IN LONG-READ SEQUENCING**



## 8:30 – 8:55 a.m. Registration and Continental Breakfast

9:00 – 9:10 a.m.

Welcome and Introduction

Roberto Lleras, Manager, Field Applications Scientist, Bioinformatics, PacBio

## 9:10 – 9:55 a.m. Introduction to SMRTLink 5.0

Minor Variant Detection with Juliet

Roberto Lleras, Manager, Field Applications Scientist, Bioinformatics, PacBio

Structural Variant Detection with PBSV

Aaron Wenger, Ph.D., Staff Scientist, PacBio

## 10:00 – 11:15 a.m. Concurrent Breakout Sessions

### SESSION I: So, I Have a Diploid Assembly...Now What?

10:00 – 10:30 a.m.

Understanding, Curating, and Analyzing Your Diploid Genome Assembly

Sarah Kingan, Ph.D., Senior Scientist, Bioinformatics, PacBio

10:30 – 10:45 a.m.

Chromosome-scale De Novo Assembly of Mammalian Genomes Using Chromatin Interaction Data

Jay Ghurye, Ph.D. Candidate, Department of Computer Science, University of Maryland

10:45 – 11:15 a.m.

SESSION I Discussion

### SESSION II: Mini-training Session: Best Practices in Multiplexing with PacBio

10:00 – 10:30 a.m.

Best Practice for Interpreting Demultiplexed Output

Carmen Guarco, Ph.D., Scientist, Field Applications Support, Bioinformatics, PacBio

10:30 – 10:50 a.m.

Downstream Applications: Minor Variant Calling, Microbial Assembly, CCS2, and Iso-Seq

Roberto Lleras, Manager, Field Applications Scientist, Bioinformatics, PacBio

10:50 – 11:15 a.m.

SESSION II Discussion

## 11:15 – 11:30 a.m. Coffee Break

11:30 – 11:45 a.m.

Breakout Sessions Wrap-up

11:45 – 12:30 p.m.

Keynote: Accurate Detection of Complex Structural Variation

Fritz J. Sedlazeck, Ph.D., Lead Scientific Programmer, Human Genome Sequencing Center, Baylor College of Medicine

12:30 – 12:45 p.m.

Open Forum for User Questions, Comments and Feedback on SMRTLink

12:45 – 12:55 p.m.

Closing Remarks

1:00 p.m.

Lunch

**Thanks to  
our Partners:**

