

# Long Read Sequencing Opportunities at the Baylor College of Medicine Human Genome Sequencing Center

## Part 2: Focusing on Pacific Biosciences

Baylor  
College of  
Medicine

Friday, April 23, 2021  
10 a.m. – 12:30 p.m.

- 10 a.m. **Introduction**  
Shalini Jhangiani, M.S.  
Baylor College of Medicine
- 10:05 **Pacific Biosciences at the HGSC**  
Donna Muzny, M.S.  
Director of Operations  
Baylor College of Medicine
- 10:15 **Bulk and single-cell Iso-Seq method for neurodegenerative diseases and cancer**  
Elizabeth Tseng, Ph.D.  
Principal Scientist Bioinformatics  
Pacific Biosciences
- 10:30 **Advantages of long read sequencing for 16S and metagenomic analyses**  
Joseph Petrosino, Ph.D.  
Chairman/Professor of Virology and Microbiology  
Baylor College of Medicine
- 10:45 **Characterization of complex immune gene variation in macaques**  
Roger Wiseman, Ph.D.  
Senior Scientist  
University of Wisconsin
- 11:00 **BREAK**
- 11:10 **PacBio long read sequencing helps resolve a difficult region of the genome and identifies a potential Goldenhar disease gene**  
Angad Jolly  
M.D. Ph.D. Candidate  
Baylor College of Medicine
- 11:25 **Comprehensive variant detection with PacBio HiFi reads**  
William Rowell, M.S.  
Staff Scientist Bioinformatics  
Pacific Biosciences
- 11:40 **The impact of HiFi Sequencing on Unsolved Rare Disease**  
Emily Farrow, Ph.D., C.G.C.  
Laboratory Operations Director  
Children's Mercy Kansas City
- 11:55 **PANEL Q&A**  
All speakers
- 12:25 **Closing remarks**  
Shalini Jhangiani, M.S.