Long Read Sequencing Opportunities at the Baylor College of Medicine Human Genome Sequencing Center
Part 2: Focusing on Pacific Biosciences

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.