



Twist Bioscience Showcases Next-Generation Sequencing Products and Results at American Society for Human Genetics 2019 Annual Meeting

October 16, 2019

-- Reports Exceptional Data from Sample Preparation with FFPE and Saliva Samples to Streamline NGS Workflows --

-- Adds Mitochondrial Custom Panel --

SAN FRANCISCO--(BUSINESS WIRE)--Oct. 16, 2019-- Twist Bioscience Corporation (NASDAQ: TWST), a company enabling customers to succeed through its offering of high-quality synthetic DNA using its silicon platform, today announced the presentation of new customer, company and collaborator data using the Twist Bioscience target enrichment and library preparation products for next-generation sequencing (NGS). In addition, Twist Bioscience will showcase the results of adding formalin-fixed paraffin-embedded (FFPE) and saliva sample preparation workflows with its NGS products, resulting in uniform sequence coverage of the target area of interest within the genome.

Researchers from Children's Hospital Los Angeles and Weill Cornell Medicine to Share Data

In a company-sponsored [workshop](#) today, D. Gigi Ostrow, Ph.D., translational genomics manager for Children's Hospital of Los Angeles will present "Our Twist on Cancer Predisposition Testing", Duane C. Hassane, Ph.D., assistant professor of computational biomedicine in medicine at Weill Cornell Medical College, will present "From Pre-AML to Pre-CISE-1: Clonal Hematopoiesis, Acute Myeloid Leukemia and Molecular Aging", and David Kupec of Twist Bioscience will provide an NGS tools product overview. Presentations will be available on the [Resource section](#) of the Twist Bioscience website.

Addition of Sample Preparation Solutions to Enhance Streamlined Workflow, New Mitochondrial Panel

The company also released new data combining sample preparation solutions integrated with the Twist Bioscience library preparation and target enrichment workflow, as well as a new fixed custom panel to conduct target enrichment of the mitochondrial DNA.

FFPE Sample Preparation Combined with Twist Solution

Library construction for NGS using FFPE samples offers unique challenges in acquiring high-quality sequencing data due to wide distribution of sample quality. Differences in formalin fixation methods, storage conditions, and age lead to crosslinked and/or degraded nucleic acid and inconsistent extraction yields. Therefore, FFPE extraction and library construction methods must be carefully considered for target enrichment applications. In collaboration, Covaris and Twist Bioscience demonstrate a complete library preparation and target enrichment solution that generates ready-to-sequence multiplexed libraries directly from FFPE tissue of various qualities. Specifically, the truXTRAC kit and adaptive focused acoustics (AFA) technology from Covaris generate size specific DNA libraries from FFPE samples that, when paired with Twist Bioscience's Library Preparation and Human Core Exome Kit, deliver multiplexed libraries for high performance targeted sequencing.

Saliva Sample Preparation Combined with Twist Solution

The drive towards personalized medicine, pharmacogenomic testing and growth in the direct-to-consumer market has increased the number of genomic samples collected and analyzed year over year, with genomic laboratories now challenged to process more samples, more efficiently. Routine handling, such as DNA extraction, quantification and normalization, adds considerable time and cost to the laboratory workflow, often limiting the number of samples that can be processed in a single day. Twist reported results from an augmented method of using its Fast Hybridization & Wash Kit to rapidly sequence saliva samples in combination with DNA Genotek, allowing researchers to move from sample to sequencer in an eight-hour workday.

New Product Introduction: [Twist Mitochondrial DNA Panel](#)

Mitochondria are double-membrane-bound organelles found in most eukaryotic organisms. Commonly termed the "powerhouse" of the cell, mitochondria are responsible for creating the vast majority of the energy needed to sustain life and support organ function. When mitochondria fail to produce enough energy for the body to function as it should, mitochondrial disease results. Often chronic, genetic, and often inherited disorders, the Cleveland Clinic estimates that approximately one in 5,000 individuals is affected with a mitochondrial disease. Clinicians use familial history and genetic tests to aid in the diagnosis of mitochondrial disorders. At Twist Bioscience, we are working with top clinicians to provide answers for their patients with hard to diagnosis diseases. The Twist Mitochondrial Panel is a fixed content panel that covers 16kb and 37 genes of the human mitochondrial genome. The mitochondrial panel can be sequenced as a standalone panel or can be combined with the Twist Human Core Exome panel, leading to more comprehensive profiling for complex inherited disease studies.

"We are thrilled to see our products truly making a difference in the way research is conducted – from pediatric to oncology applications – and look forward to continuing our commitment to improve healthcare through improved synthetic DNA-based products," said Emily M. Leproust, Ph.D., CEO and co-founder of Twist Bioscience. "By expanding our product line for compatibility with additional sample preparation options to enhance the workflow, we look forward to meeting additional needs for our customers and even allowing them to 'Sequence the Unsequenceable'."

Data using these new tools will be presented in the exhibit hall during ASHG and available through the [Resources](#) section of the Twist Bioscience

website:

- Poster #2596Y: Unique Dual Indexing Primers and Universal Blockers Enable Multiplexed Target Enrichment Applications will be presented by Kristin Butcher from 3:00 to 4:00 p.m. local time on Thursday, October 17
- Poster #1850F: High Performance Multiplexed Target Enrichment Sequencing from FFPE Tissues will be presented by Richard Gantt from 2:00 to 3:00 p.m. local time on Friday, October 18.
- Twist Bioscience will also host Booth 515

About Twist Bioscience Corporation

Twist Bioscience is a leading and rapidly growing synthetic biology company that has developed a disruptive DNA synthesis platform to industrialize the engineering of biology. The core of the platform is a proprietary technology that pioneers a new method of manufacturing synthetic DNA by "writing" DNA on a silicon chip. Twist is leveraging its unique technology to manufacture a broad range of synthetic DNA-based products, including synthetic genes, tools for next-generation sequencing (NGS) preparation, and antibody libraries for drug discovery and development. Twist is also pursuing longer-term opportunities in digital data storage in DNA and biologics drug discovery. Twist makes products for use across many industries including healthcare, industrial chemicals, agriculture and academic research.

All Twist Bioscience products are Research Use Only.

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