

Four new systems from Illumina, 4/15

April 2015—Illumina has launched the HiSeq X Five System and HiSeq 3000/4000 systems and has introduced the NextSeq 550 System, an NGS system enabled for array scanning.

The HiSeq X Five System is designed for laboratories wanting to take advantage of HiSeq X technology for human whole genome sequencing at a smaller scale. At full utilization, the system, which consists of five individual HiSeq X instruments, provides the throughput to sequence more than 9,000 genomes a year.

The HiSeq 3000/4000 systems are designed to provide unparalleled speed and performance for the full range of high-throughput sequencing applications. The patterned flow cell technology enables the HiSeq 3000, using a single flow cell, and the HiSeq 4000, using dual flow cells, to deliver an exceptional level of throughput at a lower price per data point than the HiSeq 2500. With the ability to process one or two flow cells simultaneously, the HiSeq 4000 can sequence up to 12 genomes, 100 whole transcriptome samples, or 180 exomes in 3.5 days or less. Using a single flow cell, the HiSeq 3000 can produce half the throughput at the same price per sample as the HiSeq 4000.

The NextSeq 550 System combines microarray scanning with the robust NextSeq 500 Sequencing System for further exploration or confirmation of copy number variants detected through sequencing. The initial arrays qualified for the system are for cytogenetics and prenatal genetic diagnostic applications. Illumina's BlueFuse software is integrated into the system, creating a streamlined workflow for data management and analysis.

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