

New Products

Multiplexed Assay System

The BeadXpress System is a high throughput, dual color laser detection system that enables scanning of a broad range of multiplexed assays developed using the VeraCode digital microbead technology. VeraCode technology features uniquely inscribed digital microbeads that provide high-quality data, broad multiplexing capability, and assay flexibility. The instrument scans the VeraCode microbeads for their code and fluorescent signals, generating data quickly and efficiently. Using the system, researchers can assay tens to hundreds of analytes in a single sample at one time. Application areas include biomarker research and validation, pharmaceutical development, industrial testing, agriculture, clinical research, and the development of molecular diagnostic assays. For example, BeadXpress technology can be used to develop screening assays that profile inherited and complex diseases. Drug discovery researchers can use it to validate RNA and protein biomarkers. Genetic researchers can use it to replicate single nucleotide polymorphism studies from large disease association studies to their own populations, for example, quickly retesting the top 50 or 100 polymorphisms in very large sample sizes. The system can scan assays ranging from a single-plex to 384-plex in a single well.

**Illumina**

For information 312-997-2436
www.illumina.com

DNA Methylation Arrays

NimbleGen DNA methylation analysis arrays allow researchers to rapidly identify methylated regions in a high throughput manner. These arrays can be used to correlate promoter and gene methylation with gene expression and phenotype and detect differential DNA methylation between normal tissues and tumor samples as potential diagnostic and prognostic markers. Whole-genome DNA methylation arrays are available for human, mouse, rat, dog, and chicken genomes, tiling at an average probe spacing of 100 bp to provide an unbiased approach to DNA methylation analysis. These arrays survey not only regions surrounding known genes but also intergenic regions, allowing distal regulatory elements to be surveyed and providing the maximum opportunity to discover relevant biomarkers. For studies focusing on promoter regions, one- and two-array sets are available for surveying promoter regions of all known genes in human, mouse, rat, and *Arabidopsis*.

NimbleGen Systems

For information 608-218-7623
www.nimblegen.com

Network Analysis Tools

The integration of OncoPrint Professional and Ingenuity Pathways Analysis (IPA) will allow users to navigate directly from cancer gene signatures discovered in OncoPrint Professional to the curated pathway information available from IPA. OncoPrint Professional is a rapidly growing compendium of transcriptome profiles coupled with analysis functions and a web application for data mining and visualization. Comprised of thousands of profiles representing every major type of cancer, OncoPrint Professional was developed to exploit these data for therapeutic target discovery, validation, and prioritization. IPA is software that enables biologists and bioinformaticians to identify the biological mechanisms, pathways, and functions most relevant to their experimental datasets or genes of interest. The integrated workflow based on IPA's capabilities for rapid and reliable biological interpretations of OncoPrint's high-quality cancer transcriptome profiles is expected to provide a powerful tool for oncology researchers focused on understanding mechanisms of disease, and on the discovery and validation of cancer biomarkers.

Compendia Bioscience and Ingenuity Systems

For information 650-381-5150
www.compendiabio.com and www.ingenuity.com

Human Genomewide SpliceArray

The SpliceArray provides a unique approach to detecting all known and novel expressed transcripts. The Human GW SpliceArray monitors more than 23,000 human genes covering more than 130,000 expressed transcripts and requires more than 6 million probes to help elucidate the enormous diversity of the human proteome. This new design, manufactured on the Affymetrix platform, provides researchers the

opportunity to obtain gene expression results at a resolution previously unattainable on a single microarray by interrogating both exons and splice junctions.

ExonHit Therapeutics

For information +33 1 58 05 47 00
www.exonhit.com

Dynamic Light Scattering Instrument

The DynaPro Plate Reader is a temperature controlled, high throughput dynamic light scattering (DLS) plate reader. It allows researchers to perform classical thermal DLS studies automatically on a large number of therapeutic macromolecules over a wide range of solution conditions. Conventional DLS studies are laborious and time consuming, with each solution condition studied manually, one at a time, over several hours. In contrast, the DynaPro controls the temperature for hundreds of samples simultaneously, capturing DLS data quickly, easily, and directly from standard microplates (96-well, 384-well, and 1,536-well formats) without perturbing precious samples. As little as 5 μ l of sample per well is required in the 1,536-well format. The instrument includes an array of state-of-the-art technologies, including software controlled, Peltier-based temperature systems; compact digital attenuators; precision mechanical stages; proprietary multimode optical fibers; and novel software control and processing algorithms.

Wyatt Technology

For information 805-681-9009
www.wyatt.com

Microarray Data Analysis

TMA Foresight is a statistical tool for tissue microarray data analysis. Users can explore the relatedness of prognostic marker expression and clinicopathological variates with the outcome. Cox's Proportional Hazard analysis can be used for prognostic marker identification. Hierarchical clustering can be used to group patients on the basis of clinicopathological parameters and biomarkers. Kaplan-Meier plots and log-rank tests are used to identify prognostically significant clusters.

Premier Biosoft International

For information 650-856-2703
www.premierbiosoft.com

Correction

Life Science Technologies Feature:

"Cell Signaling: Phosphorylation, Kinases, and Kinase Inhibitors" (6 April 2007, p. 125). The trademark for the homogeneous time-resolved fluorescence (HTRF) technology was incorrectly attributed to Millipore Corporation. The HTRF trademark is held by Cisbio International of Gif-sur-Yvette, France.