New Products Focus: Microarrays

Wash System
The Maui Wash System automates posthybridization wash protocols to provide clean, dry microarray slides. The system is suitable for mid throughput to high throughput laboratories that demand high-quality microarray data. The system accommodates many wash protocols, with user control of cycle times, reagent usage, temperature, slide agitation, and drying.

Cytogenetic Solution
Cytogenetic Solution, which combines the high-density SNP Array 6.0 with a simple assay and intuitive software, is designed to enable researchers to detect more copy-number abnormalities associated with congenital diseases. The microarray-based system provides cytogenetic researchers with an accurate method of detecting chromosomal abnormalities associated with congenital diseases such as autism and mental retardation. The copy number and loss of heterozygosity information it delivers enables scientists to identify uniparental disomies—genetic abnormalities that are frequent in many congenital diseases.

Affymetrix
For information 408-731-5844
www.affymetrix.com

Gene Expression BeadChip
The HumanHT-12 BeadChip is a 12-sample product designed to accelerate whole genome expression and expression-based quantitative trait loci (eQTL) studies. It includes more than 48,000 probes per sample. Along with the HumanWG-6, which offers high-quality, whole-genome expression data, the HumanHT-12 BeadChip provides gene expression researchers with a flexible and cost-effective screening tool.

Illumina
For information 858-332-4055
www.illumina.com

Chicken Microarray
The Oligonucleotide Array CGH (comparative genomic hybridization) chicken microarray contains 244,000 features. The 244K chicken CGH array enables users to analyze to what extent copy number variation contributes to phenotypic variation in chickens, a species of significant economic importance and an important developmental biology model. The product started as a custom array, but the manufacturer received enough demand to put it in its catalog.

Agilent Technologies
For information 408-553-7191
www.agilent.com

Microarray Scanners
Two new microarray scanners, the Axon GenePix 4300A and the Axon GenePix 4400A, improve the efficiency of research experiments, reduce the cost per data point, and offer broad applicability. The scanners provide customers with the ability to run the most advanced microarray applications, according to the manufacturer.

MDS Analytical Technologies
For information 888-637-7222
www.mdssiex.com

Silverquant Microarray Detection
The Silverquant microarray detection and scanning system provides four times higher sensitivity than fluorescence as well as signal stability. A new application note (No. 148) from Eppendorf Biochip Systems describes its features in detail and compares it with fluorescence in terms of sensitivity, dynamic range, reproducibility, and stability. According to the application note, the Silverquant detection technology offers higher resolution at low analyte concentrations, higher dynamic range, high reproducibility, and high signal stability with no photobleaching and no sensitivity to ozone. The Silverquant detection technology is reliable and robust with no moving optical parts. It features a 16-bit charge-coupled-device sensor, an integrated barcode reader, high resolution (up to 6 µm), fast scanning times (1 minute per slide at 12 µm). It scans standard microarray slides.

Eppendorf
For information +49-40-53801-1
www.eppendorf-biochip.com

Life Science Search Engine
A free version of the NextBio life science search engine is available. Using NextBio, a researcher or clinician can search the world’s public life sciences data and literature, including more than 10,000 experiments, 16 million articles, and billions of data points. In addition, users can import their own experimental data into the NextBio search engine, share it with the community, and collaborate with others. With NextBio, researchers can find topics of interest quickly with an intelligent semantic auto-complete feature, make correlations across six species, perform searches to validate or generate novel hypotheses before investing in new experiments, and understand their own results by correlating them with the world’s collective experimental data.

NextBio
For information 408-861-3610
www.nextbio.com

For information 650-328-2580
www.biomicro.com
New Products

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