



« Taconic offers a wide variety of immunodeficient rodents and services

» The EasyCount System from Immunicon



Work for the Cure

Diagnostic tools for Oncology

It is very important to detect signs of cancer in its early stages for successful treatment. The products below represent the newest technology in oncology, from diagnostics to research.

The **cobas 6000** analyzer series, from **Roche**, is the new generation solution of modular serum work area (SWA) automation. From a single analytical module to complete capability for clinical chemistry and immunochemistry covering more than 95% of daily routine testing requirements, the cobas 6000 analyzer series brings added versatility to meet evolving laboratory needs. The cobas 6000 analyzer series is the first member of the new cobas modular platform. It offers medium workload laboratories tailor-made solutions, integrating clinical chemistry and immunochemistry testing. It is a highly compact and efficient analytical system that provides efficiency, convenience, safety, and flexibility. Through on-site upgrades of up to 3 modules in 7 different combinations, its modular design can grow with the laboratory, securing the investment in the future. Data management capabilities via internet link, such as full traceability of work area internal processes, full system data backup, direct access to latest updates of application information for reagents, calibrators and controls and additional service options supports the evolving standard of good laboratory practice. E-services ensure operational convenience and safety for around the clock operation. Result integrity is ensured with clot and liquid level detection, test specific serum indices, antigen excess check and carry-over protection using high priority settings and intensi-

fied washing procedures. **More information:** www.roche.com

Taconic offers a wide variety of **immunodeficient rodents** and **services** useful for your oncology, immunology and xenograft studies. These include the MVP of rodent models, the Taconic NCR nude mouse. Taconic offers researchers the confidence that the NCRNU mouse has a clearly defined health standard and a stable phenotype. Taconic produces the NCR nude mouse from production colonies sized large enough to meet all of your research needs. Additionally, Taconic offers a variety of nude and scid mutations on numerous backgrounds. Immunodeficient Taconic Transgenic Models are sold with full research use rights and are available from live production colonies. Taconic's Contract Research Services can perform xenograft and compound administration studies. Taconic offers a full portfolio of immunodeficient models. **More information:** www.taconic.com/ID

The **EasyCount System**, from **Immunicon**, is a fluorescent microscopy-based imaging system that accurately counts live and dead nucleated cells, such as mammalian cells, hybridomas and ficoll preparations, and automatically calculates cell viability, in a single test. The EasyCount System reports results in less than 1 minute per test, providing precise and accurate information for your cell lines. Together with the **EasyCount ViaSure Kit**,

the routine function of counting cells is automated, eliminating the variability associated with the subjective interpretation of manual methods. The ViaSure staining reagent uses a mixture of ready-to-use nucleic acid dyes, acridine orange and ethidium bromide, to identify live and dead cells, respectively, in a single test, while the EasyCount Slide6 provides the ability to perform up to six consecutive cell counts. **More information:** www.immunicon.com

H25K, from **ArrayIt**, is a multi-purpose long oligonucleotide microarray that allows karyotyping, gene expression profiling, chromatin structure analysis, and protein-DNA interaction studies on a genomic scale. It is the world's first whole human genome microarray based on the completely sequenced human genome and derived from a fully annotated set of 25,509 human genes and 795 controls. This "next generation" microarray represents a significant advance over competing products derived from collections of expressed sequences tags and partially annotated sequence data bases. The H25K includes kits for amplification and fluorescent labeling and is fully supported by ArrayIt SpotLight Scanners. **More information:** www.arrayit.com

The **S&S Serum Biomarker Chip**, from **Whatman**, enables proteomics researchers to pattern the molecular signature of human serum. The chip addresses the need



◀ The ArrayIt H25K Human Genome Microarray

for high throughput technologies used to study and develop a range of research applications from risk stratification, to disease prognosis, drug eligibility, prediction of safety and efficacy, and therapeutic monitoring. Two-color fluorescent detection permits the researcher to reproducibly pattern the relative abundance of 120 human serum proteins between two samples, such as serum samples from diseased and healthy individuals. **More information:** www.whatman.com

Illumina announces the new **Human1M DNA Analysis BeadChip**, a solution that contains more than one million single nucleotide polymorphisms (SNPs) on a single chip. In addition to targeting an extensive catalog of known copy number variation (CNV) sites, the Human1M BeadChip contains novel CNV content, developed in collaboration with deCODE genetics. The comprehensive content of the Human1M BeadChip offers the scientific community high genomic coverage, power, and value per sample. Powered by the Infinium assay, researchers are able to quickly obtain and publish results. **More information:** www.illumina.com

GEArray focused DNA microarrays from **GE Healthcare** are the ideal tools for studying gene expression associated with a biological pathway or disease state. Each pre-printed GEArray includes a thoroughly researched set of relevant, pathway or disease focused genes. Customized GEArrays allow you to select a panel of genes tailored to your specific research needs. It includes 100-500 relevant, pathway-specific genes, and requires as little as 0.1µg total RNA. The focused design, data handling is easy and straightforward, allowing you to finish your

research projects sooner. **More information:** www.gehealthcare.com

Affymetrix introduces the **Genome-Wide Human SNP Array 6.0**, a single microarray that measures more than 1.8 million markers for genetic variation. The array enables researchers to genotype more markers from more individuals at a lower cost per sample. These higher-powered studies increase the probability of discovering genes associated with adverse drug response or complex diseases, such as Alzheimer's, diabetes, heart disease and Parkinson's. The Affymetrix SNP Array 6.0 contains more than 900,000 single nucleotide polymorphisms (SNPs) and more than 946,000 non-polymorphic probes for the detection of copy number variation. Because it includes many of the common genetic variations that extend beyond the International HapMap Project, the SNP Array 6.0 enables researchers to better detect the genes associated with many different complex diseases affecting multiple ethnicities. Researchers can use the same array to test multiple study or disease hypotheses simultaneously, and the same meta analysis can be used across multiple cohorts. Developed in collaboration with the Broad Institute of Harvard University and the Massachusetts Institute of Technology, the Affymetrix SNP Array 6.0 features a state-of-the-art array probe design and improved data analysis algorithms. The performance has been evaluated and validated by five different sites, including the Broad Institute. **More information:** www.affymetrix.com

Eppendorf has developed a **new transcription factor array** related to stem cells. With this kit, 12 activated transcription



▶ The Genome-Wide Human SNP Array 6.0 from Affymetrix

factors connected to stem cell differentiation, proliferation, or apoptosis can be monitored. Double-stranded DNA molecules are bound to a glass surface, then incubated with a nuclear protein extract and transcription factor activity is monitored with specific antibodies. Detection can be done with Eppendorf's Silverquant technology or with fluorescence. This kit enables the analysis of the status of a stem cell culture in just one experiment in a convenient and simple workflow. It can be used for human, mouse or rat samples. **More information:** www.eppendorf.com ■

Companies Mentioned in this Product Spotlight:

Affymetrix - www.affymetrix.com

ArrayIt - www.arrayit.com

Eppendorf - www.eppendorf.com

GE Healthcare - www.gehealthcare.com

Illumina - www.illumina.com

Immunicon - www.immunicon.com

Roche - www.roche.com

Taconic - www.taconic.com

Whatman - www.whatman.com

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