

Cytokines

If you're tired of pipetting endless ELISAs, Panomics offers multi-membrane arrays that allow researchers to profile multiple cytokines in one detection experiment — all in one system and with no additional equipment required. These **cytokine arrays** facilitate the simultaneous detection of multiple cytokines from a variety of sources, such as conditioned media, patient sera, plasma and urine. The stated advantages of Panomics' cytokine arrays over traditional methods like ELISA are: high sensitivity, with the arrays detecting cytokines in the pg/ml range; less variability; and cost savings.

Tel. (+1) 877-726-6642
www.panomics.com

Medsystem Diagnostics now has over 50 different products available for the **detection and quantification of Th1 and Th2 cytokines**. Intended to help researchers distinguish between cell-mediated and humoral-mediated immune responses, the company's Th1/Th2 product line includes ELISA and Instant ELISA kits, as well as antibodies, purified proteins and fluorescent bead immunoassays.

Tel. (+43) 1-796-40-40-0
www.bendermedsystems.com

Vectors

Qbiogene offers the **protease (PS)-deleted adenovirus vector system** for the production of second-generation recombinant adenovirus. This system combines deletions of early and late genes to provide a safe and non-disseminating virus, says the company. The PS-deleted adenovirus system is suitable for short-term, high-level expression of transgenes and for *in vivo* applications where safety is critical, such as gene therapy, vaccination and the production of adeno-associated virus and other viral vectors. The new adenovirus vector is deleted for the essential PS late gene involved in cell entry, virion assembly and maturation. The PS-deleted genome can also be used in conjunction with ectopic expression of the PS gene in a transfer vector with 100% positive selection efficiency, says Qbiogene, thus facilitating the construction of adenovirus libraries for use in functional genomics studies.

Tel. (+1) 760-929-1700
www.qbiogene.com

Inserts



Culture plate inserts for attachment-dependent and suspension cell cultures.

Millipore offers Millicell **culture plate inserts**, which are designed to promote more natural cell growth and improve the study of attachment-dependent and suspension cell cultures. Unlike traditional plastic-bottom tissue culture plates, Millicell inserts are said to allow cells to grow on a membrane, which gives the cells access to media from both their apical and basolateral sides. As a result, their structure and function better resemble cells grown in an *in vivo* state. In addition, Millipore says the Millicell inserts enable the study of both sides of the cell monolayer. The Millicell inserts include a wide range of Millipore membranes for various cell culture applications. Biopore membrane provides an air-liquid interface for natural basal feeding to ensure optical clarity for invert stage viewing. Triton-free mixed cellulose esters membrane is optimized for transport permeability and electrical physiology of cell monolayers. Isopore track-etched polycarbonate membrane is designed for suspension cell applications.

Tel. 1-800-MILLIPORE
www.millipore.com/millicell

Antibody assortment



Phosphorylated protein antibodies by Biodesign.

Phosphorylation of proteins is important in the regulation of signaling pathways. To meet researchers' needs, Biodesign has expanded its line of novel **phosphorylated protein antibodies**. The major additions to this product line include six monoclonal antibodies to phosphoserine, four monoclonal antibodies to phosphotyrosine and three monoclonal

antibodies to phosphothreonine. Their specificity varies based on the amino acids neighboring the phosphorylated amino acid. These products are available separately or in sets of six, four and three monoclonals, respectively. All are said to perform in western blot and immunoprecipitation applications. Some also work in enzyme immunoassay applications.

Tel. (+1) 888-530-0140/(+1) 207-283-6500
www.biodesign.com

Arrays

The **nitric oxide gene array**, the latest in the GEArray Q Series from SuperArray Bioscience, contains 96 genes representing the variety of targets downstream of the short-lived secondary messenger, NO. These targets include chemokines and cytokines, ECM and adhesion molecules, growth factors and hormones and their receptors, transcription factors and many others. Through a simple side-by-side hybridization, it is possible to determine the relative expression profile of these genes in experimental RNA samples using the arrays and reagents provided in this kit. Related Q Series GEArray products include: common cytokine; inflammatory cytokines and receptors, chemokines and receptors; signal transduction Pathway Finder; and extracellular matrix and adhesion molecules. Arrays containing either human or mouse genes are available for the above-mentioned kits.

www.superarray.com

InnoGenex (a subsidiary of BioGenex) introduces **human lung cancer tissue microarrays (TMA)** for high-throughput screening of the *in situ* gene expression for target validation. The lung cancer TMAs may be used for differential gene expression profiling. A variety of tumors and different grades of tumors are represented on a single slide. Paired normal lung and abnormal samples with chronic inflammation or carcinoma from the same patient are also represented in the TMAs. Hence, gene expression can be correlated with the normal lung tissue and lung cancer tissue, or with different stages of cancer development. The tissues are fixed in neutral buffered formalin, embedded in paraffin, and sectioned at approximately 3–5-µm section thickness. The tissues are validated for use in immunohistochemistry and *in situ* hybridization assays. Low-density TMAs (20 to 50 elements) and high-density TMAs (100–300 elements) are available.

www.innogenex.com