

ON THE MARKET

ARRAYS

The **human and mouse breast cancer and estrogen receptor signaling gene arrays** from SuperArray Bioscience each contain 96 genes relevant to breast cancer research and to understanding cellular responses to estrogen. Many genes are known to be preferentially expressed in breast cancer cells and thus serve as useful markers of the disease. The expression of other genes defines the prognosis of breast cancer, while the expression of still other genes is associated with the cancer cells' response to chemotherapy. All of these genes, as well as those involved in the estrogen-signaling pathway, are included on this array. Through a simple side-by-side hybridization, researchers can determine the expression profile of these genes in experimental RNA samples using the arrays and reagents provided in this kit. Related Q Series GEArray products may also be of interest and include: androgen signaling and prostate cancer, apoptosis, angiogenesis, DNA damage signaling pathways, and p53 signaling pathway. Using the GEArray Q series requires no special equipment for the analysis. Arrays containing either human or mouse genes are available for the above-mentioned kits. The kits include reagents for either radioactive or chemiluminescent (non-radioactive) methods of detection. Enzyme kits for cDNA probe synthesis are also available.

www.superarray.com

KITS



Montage in-gel digest kits.

Millipore's new **in-gel digest kit** is designed to improve sensitivity, simplify process and reduces protein loss. The Montage In-Gel Digest ZP Kit includes prepared, quality-controlled reagents; Promega Modified Trypsin (the laboratory standard for protein digestion); and the ZipPlate Micro-SPE Plate. The ZipPlate de-

vice is a 96-well sample preparation tool that can be used to perform both in-gel digestion and sample concentration and desalting prior to mass spectrometry (MS). By enabling researchers to do all these procedures in a single plate, the ZipPlate technology eliminates the need for transfer steps and improves the sensitivity of the MS analysis. Using the kit, a researcher simply places the gel slice into the wells of the plate; destains and digests the sample using the supplied reagents; and elutes the concentrated, desalted samples onto a receiver plate. The sample is then ready for MS analysis. The kit is configured for manual and automated use. Protocols are available from Millipore for a variety of automated liquid handling systems. Montage In-Gel Digest Kits are produced in partnership with Proteome Systems (Sydney, Australia).

Tel. (+1)-800-MILLIPORE
www.millipore.com/ziptip



Axxora's offers oxidative stress kits.

ABEL (analysis by emitted light) **oxidative stress kits** are now available from Axxora. These chemiluminescent kits can measure real-time production of free radicals and reactive oxygen-containing species, as well as type-specific antioxidant status. All contain Pholasin, a photo-protein found in a common bioluminescent mollusk. Produced by Knight Scientific, the kits contain almost everything needed to run assays on a luminometer. **ABEL cell activation kits** monitor the activation of the NADPH oxidase complex, granulation of myeloperoxidase, and measure oxidants such as hypochlorous and hypobromous acid, as well as peroxynitrite. The tests can be used to produce kinetic data and/or identify primed leukocytes. They require only a small sample volume, typically 0.2 µl equivalent whole blood or a few hundred cells, and can be completed in under 10 min.

Tel. (+1) 858-550-8830
www.axxora.com

NUCLEIC ACID/PROTEIN PREP



Qbiogene's nucleic acid/protein prep system.

Qbiogene has introduced a new and improved model of the BIO 101 Systems FastPrep. Designed to lyse any sample in 40 s or less, the FastPrep **instrument for preparing nucleic acids and proteins for purification** is said to eliminate the inconsistencies and time associated with traditional cell disruption methods. As a result, researchers can lyse cell and tissue samples quickly and with minimal nucleic acid shearing or protein denaturing, says Qbiogene. This self-contained system is designed to eliminate the risk of cross-contamination and time-consuming clean-up associated with manual nucleic acid and protein lysis: the user adds sample to the tube of lysing matrix and then places the tube in the FastPrep instrument. Models are available for 100, 120 or 220 VAC operation.

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

STEM CELL MEDIUM

Stemline **hematopoietic stem cell expansion medium** from Sigma-Aldrich is designed to support the expansion of CD34⁺ progenitor cells from cord blood, bone marrow and mobilized peripheral blood. This ready-to-use medium offers 12 months stability and performance, according to the company. For flexibility, customers are given the choice in the addition of cytokines. Human serum albumin is the only animal-origin component present in this otherwise defined formulation to enable consistent performance and to minimize animal component-related safety issues.

Tel. (+1) 314-771-5765
www.sigma-aldrich.com