



### Spectrophotometer

The NanoDrop ND-8000 8-Sample Spectrophotometer features patented technology that allows samples as small as 1  $\mu$ l to be measured without cuvettes or capillaries. The system can measure even highly concentrated samples without performing dilutions. The system can process a 96-well microplate in five minutes. Up to eight samples are loaded using an eight-channel pipettor. Each sample is assessed at two different path lengths to achieve an extensive dynamic range. Total sample-to-sample measurement cycle time is less than 30 seconds, including sample prep and loading, spectral reading, and wiping of the optical surfaces. The instrument is based on a unique cuvetteless technology that allows measurement of one microliter samples pipetted directly onto the fiber optic measurement surface. Once the upper surface contacts the sample, a liquid bridge forms and a spectral reading is taken. Cleaning simply requires wiping the sample off the pedestals with an ordinary lab wipe.

**NanoDrop Technologies** For information 302-479-7707 www.nanodrop.com

### Patent Search Software

Matheo Patent searches, retrieves, and analyzes patent data from the U.S. Patent and Trademark Office and the European Patent Office's Esp@cenet services. This software has a wide range of uses for patent searching and exploration, innovation detection, competitor and technology monitoring, patent survey, business evaluation, competitive intelligence, and more. It automatically retrieves patents based on request criteria, creates and updates the user's local database, incorporates a user classification system, defines a personalized sorting method by defining specific fields, statistically analyzes the patents collected, manages patent families, generates graphic displays, creates personal reports, and more. Pulling information from the premier European and U.S. database, the software keeps users up-to-date with automatic e-mail alerts of new pending and approved patents.

**Matheo Software** For information  
+33 (0)4 91 08 28 82 www.matheo-software.com

### Drug Screening Products

A new set of products for the preclinical drug development marketplace has been developed through a partnership between Millipore and CXR Biosciences. The products are antibodies that identify key enzymes and transcription factors important in drug metabolism and its regulation. The products include human cytochrome P450 CYP2D6, human cytochrome P450 CYP2A6, human cytochrome P450 reductase, human pregnane X receptor, human constitutive androstane receptor, human farnesoid X receptor (27 to 143), and human farnesoid X receptor (322 to 472). This product platform enables safe drug compounds to be identified sooner.

**Millipore** For information  
800-548-7853. www.millipore.com

### Filter Sets for Fluorescent Proteins

Fifteen new filter sets for fluorescent proteins include filter sets for Invitrogen's Vivid colors, Clontech's Living Colors, and MBL's Coral Hues. Because live cell experiments are typically light-starved, optimized filter sets must deliver high signal-to-noise ratio. These filter sets are manufactured using proprietary technology that produces steep slopes and accurate band placement, for maximizing excitation and emission energy and for minimizing background. With the addition of these new sets, Omega now has optimized sets for a total of 35 proteins, including proteins from the reef coral Anthozoa and the jellyfish *Aequoria victoria*.

**Omega Optical** For information  
802-254-2690 www.omegafilters.com

### Embryonic Stem Cell Lines

The MEL cell lines are licensed, low passage, human embryonic stem cells. Under license from the Australian National Health and Medical Research Council, the cell lines have been extensively tested with Millipore's HES-cGRO media for human embryonic stem cell culture. They are provided at early passage for maximizing the stable lifespan of the cell line and ensuring extended research time in a stable, pluripotent state. They grow as well-defined colonies, with compact cells displaying high nuclear to cytoplasmic ratios and prominent nucleoli.

**Millipore** For information  
800-548-7853 www.millipore.com

### Literature

*The Vector Laboratories 2007–2008* catalog contains several new products plus more than 300 monoclonal and polyclonal primary antibodies and probes. New products include the ImmPRESS Peroxidase Micropolymer Immuno-

histochemical Anti-Goat Ig Staining Kit. Designed for detection of goat immunoglobulin G primary antibodies, this reagent provides high sensitivity, low background, and shortened staining times. The Antigen Unmasking Solution, high pH, is a TRIS-based formula highly effective at revealing antigens in formalin-fixed, paraffin-embedded tissue sections when used in combination with a high-temperature treatment procedure. Other new products include Animal-Free Blocker for blotting applications, DNA Molecular Weight Markers, and Photoprobe Amine labeling reagent that incorporates primary amines into nucleic acids. The Resolve-It Kit contains two ligands, AT-Yellow and GC-Red, that allow the separation of DNA fragments that are identical in size but contain different sequences.

**Vector Laboratories** For information  
650-697-3600 www.vectorlabs.com

### Lentivirus Transduction

The ViraDuctin Lentivirus Transduction Kit is a novel reagent system optimized to provide superior lentivirus transduction efficiencies in a variety of cell lines. Efficiencies are typically two-fold to six-fold higher than with transductions using Polybrene, according to the manufacturer. The user-friendly ViraDuctin System can be used with non-permissive cells, including primary cells and stem cells.

**Cell Biolabs** For information  
858-625-0769 www.cellbiolabs.com

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# Science

## New Products

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