Submit your manuscripts at http://www.hindawi.com
Now you can resolve rare or dim cell populations with BD Horizon™ Brilliant Violet™ polymer conjugates from BD Biosciences.

Developed from pioneering polymer dye technology acquired from Sirigen Ltd., BD Horizon Brilliant Violet dyes are brighter than conventional dyes. Improved brightness enables you to identify cell populations with lower receptor density than was previously possible, resolving cell populations previously obscured.

The complete portfolio of BD conjugated antibodies can be used to explore cellular features and characterize cells through surface, intracellular, or secreted markers. To ensure you can use BD reagents across your entire multicolor panel, our portfolio contains a broad selection of fluorochrome-conjugated antibodies.

Request a free sample, or find out how you can use BD Horizon Brilliant Violet polymer conjugates with our expanded set of tools and information at bdbiosciences.com/go/brilliant.
Now there is a BD Accuri™ C6 to fit your precise application needs. The BD special order program offers the widest range of choice and flexibility to researchers, including BD Accuri C6 systems preconfigured for specific application requirements such as those in gene expression studies.

Choose from 1- or 2-laser custom systems designed with a selection of laser wavelengths, and light scatter and fluorescence detectors best suited for your desired application.

The preconfigured BD Accuri C6 systems for gene expression enable research using the fruit series of fluorescent proteins (such as Living Colors® mCherry, mPlum, and DsRed dyes) as well as Green and Yellow Fluorescent Proteins. Other preconfigured BD Accuri C6 systems for DNA/cell cycle assays include a near ultraviolet (375-nm) laser to excite DAPI, Hoechst, and propidium iodide (PI) dyes.

The BD special order program vigorously pursues new technologies and incorporates them into BD platforms to produce advanced and flexible products available for multicolor research.

To find out more about your choices by application or to discuss a custom configuration for your lab, visit bd biosciences.com/go/screen

Plum new choices for gene expression research.
For your career in science, there's only one... Science

A career plan customized for you, by you.

myIDP.sciencecareers.org

Recommended by leading professional societies and endorsed by the National Institutes of Health, an individual development plan will help you prepare for a successful and satisfying scientific career.

In collaboration with FASEB, UCSF, and the Medical College of Wisconsin and with support from the Burroughs Wellcome Fund, AAAS and Science Careers present the first and only online app that helps scientists prepare their very own individual development plan.

Visit the website and start planning today!
myIDP.sciencecareers.org
**MUFFLE FURNACES**

A new range of 1,200°C muffle furnaces are now available which provide rapid and uniform heating in a compact, space-saving bench-top unit. The furnaces are available in chamber sizes ranging from 5.2 up to 20 L so there is a model that will suit the wide range of workloads typically required for most laboratory heating applications, such as quality control testing, ashing, heat treatment, preheating, melting, metalurgical research, and sample production. The inner chamber walls are constructed using insulated fire bricks which provide optimum insulation as well as protection against mechanical abrasion, thermal ageing, and deformation. A uniform temperature spread is achieved as the heating elements are located on both the sides and the top of the chamber and they are partially recessed and embedded in quartz sleeves. This, combined with a standard thickness of the inner chamber material, ensures additional protection and enhances uniform heating of the chamber.

**Medline Scientific**

For info: +44-(0)-1865-892987 | www.medlinescientific.com

**CELL DIFFERENTIATION MEDIUM**

OsteoMAX-XF is the first fully defined, xeno-free human mesenchymal stem cell differentiation medium for the differentiation of mesenchymal stem cells into osteocytes. Mineralization can be detected in less than one week, whereas competing products that contain serum require approximately 21 days to produce similar levels of bone formation. The formulation, licensed from Plasticell, produces more consistent and potent osteogenic differentiation than currently available formulations, enabling a more reproducible, efficient method for creating bone tissue and advancing research in bone disease and healing. EMD Millipore manufactures and distributes the medium globally for research purposes while Plasticell retains all rights over therapeutic applications. The OsteoMAX-XF differentiation media adds to EMD Millipore’s comprehensive portfolio of mesenchymal stem cell products including primary human and rat mesenchymal stem cell lines, expansion media, antibodies, characterization kits, growth factors, and ECM proteins.

**EMD Millipore**

For info: 800-645-5476 | www.millipore.com/stemcell

**PRECAST GELS**

A new range of 10 x 10 cm Precast Gels which are ideally suited to all SDS-PAGE applications are now available. PAGE-PRO Precast gels provide fast run times from 45 to 75 minutes and a superior performance compared with traditional Laemmli gels. PAGE-PRO gels have a specially formulated proprietary gel matrix composition which ensures their enhanced performance and a guaranteed shelf-life of a minimum of 12 months. Available in single and gradient percentage acrylamide compositions, PAGE-PRO gels are manufactured using an automated filling technique that ensures total reproducibility between batches. They can also be used with standard Tris-MOPS, Tris-HEPES, and Tris Tricine SDS running buffers and are suitable for use with the omnipAGE mini vertical electrophoresis and blotting systems. They are available in 10- (30 µL per well) and 15-well (15 µL per well) formats and are compatible with most apparatus, including the XCell SureLock precast gel systems.

**Cleaver Scientific**

For info: +44-(0)-1788-565300 | www.cleaverscientific.com

**UV VIEWING CABINETS**

Spectroline CX-20 and CX-21 high-intensity ultraviolet (UV) viewing cabinets guarantee maximum ultraviolet irradiance and fluorescent contrast because they are designed for peak efficiency. The CX-20 and CX-21 cabinets combine separate long-wave and short-wave 8-watt UV light sources with uniquely designed specular aluminum reflectors to assure maximum intensity and exceptional fluorescent contrast. Both units have removable bottom panels so they can be easily placed over large objects or, to provide greater illumination, over a Spectroline UV transilluminator. The cabinets’ housings are made of vinyl-clad aluminum for maximum durability. The flexible, contoured viewing eyepiece has a UV-absorbing window for comfort and safety. The window also eliminates “blue haze” interference and increases contrast between the fluorescent area and the background. Soft rubber curtains on both sides of the CX-20 allow easy entrance to its interior. A hinged metal door at the front of the CX-21 offers the convenience of using one hand to manipulate specimens.

**Spectroline**

For info: 800-274-8888 | www.spectroline.com

**PROTEIN PURIFICATION SYSTEM**

The new fraction collector and sample pump are specifically designed to enhance ÄKTApure, the modular chromatography system for flexible, reliable and intuitive protein purification. Designed to handle both air and liquid, the sample pump together with the sample inlet valve, provides fast, automated, and complete loading of up to seven samples. The air-sensor integrated into the valve detects the final drop of sample, automatically preventing the introduction of air whilst ensuring the complete sample reaches the column. The sample pump also has a robust wash program that removes any air introduced between samples. In order to secure precious samples from dust and contaminants, the fraction collector is covered and it supports flexible combinations of collection vessels from deep-well plates to 250 mL bottles. In addition to spillage-free collection across the entire flow-rate range of ÄKTApure, the fraction collector has inbuilt automatic detection of collection vessel type to ensure sample security.

**GE Healthcare**

For info: 800-526-3593 | www.gelifesciences.com/aktapure

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/products/newproducts.dtl for more information. Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by Science or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.
SCIENCE & DIPLOMACY provides an open access forum for rigorous thought, analysis, and insight to serve stakeholders who develop, implement, or teach all aspects of science and diplomacy.

WWW.SCIENCEDIPLOMACY.ORG

Register for free to receive regular updates:
www.sciencediplomacy.org/user/register

@SciDip

Senior Advisory Board

Norman P. Neureiter (Chair), AAAS
Peter C. Agre, Johns Hopkins
David C. Clary, Oxford
Paula J. Dobriansky, Harvard
Esther Dyson, Edventure

Sumaya bint El Hassan, Jordan’s RSS
Richard N. Foster, Yale
David A. Hamburg, AAAS
Mohamed Hassan, IAP
Neal F. Lane, Rice

Science & Diplomacy is published by the Center for Science Diplomacy of the American Association for the Advancement of Science (AAAS), the world’s largest general scientific society.
By your side since 1962

One company, one family of trusted brands. Here to support your research.

As your research needs evolve, we evolve to meet them. We continuously innovate high-quality solutions for every lab and every application, building from technology chosen by scientists for up to 50 years. And we’re staffed to support your success, with 3,000 technical sales, service, and support professionals ready to assist you.

Find the most cited life science brands at lifetechnologies.com/trustedbrands

©2013 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation and/or its affiliate(s) or their respective owners. CO05619 0613