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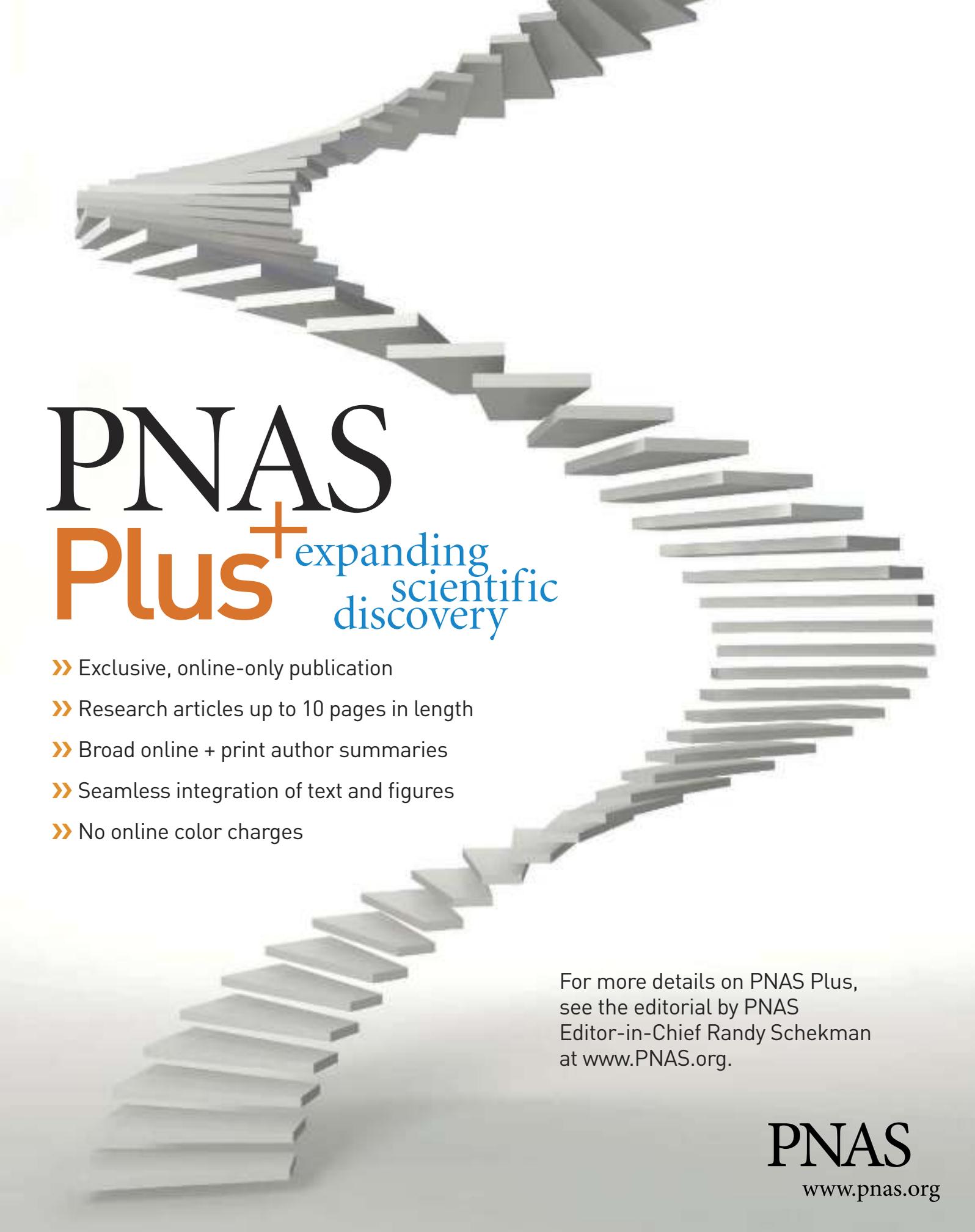
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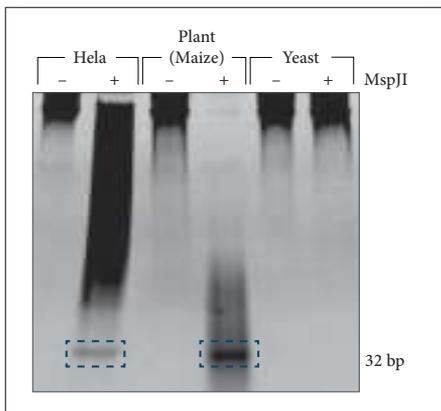
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First published Sept. 2010
GE Healthcare Bio-Sciences AB, Björkgråtan 30, 751 84 Uppsala, Sweden
GE09-10

UNDERSTANDING CHANGE

New tools to advance epigenetics research

For over 35 years, New England Biolabs has been committed to understanding the mechanisms of restriction and methylation of DNA. This expertise in enzymology has recently led to the development of a suite of validated products for epigenetics research. These unique solutions to study DNA methylation are designed to address some of the challenges of the current methods. EpiMark™ validated reagents simplify epigenetics research and expand the potential for biomarker discovery.

Simplify DNA methylation analysis with MspJI



MspJI recognizes methylated and hydroxymethylated DNA and cleaves out 32 bp fragments for sequencing analysis. Overnight digestion of 1 µg of genomic DNA from various sources with or without MspJI is shown. Note: Yeast DNA does not contain methylated DNA, therefore no 32-mer is detected.

EpiMark™ validated products include:

- Newly discovered methylation-dependent restriction enzymes
- A novel kit for 5-hmC and 5-mC analysis and quantitation
- Methyltransferases
- Histones
- Genomic DNAs

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BIOMOLECULAR INTERACTION DETECTION

The sam5 is a peerless biosensor that uses Surface Acoustic Wave technology for the label-free detection of real-time binding and structural events. Using a proprietary bimodal measurement technique, this platform is uniquely able to measure conformational changes in membranes and vesicles as well as more traditional cellular samples. The sensor chips integrate five independent sensor elements for simultaneous analysis of different species or parameters and parallel references. As a result, the sam5 matches the biosensor needs of a much broader range of researchers than existing systems, while also providing the precision required to drive conventional studies forward. The technology developed is capable of providing real-time readouts as well as measuring binding and conformational changes in the samples through which the surface acoustic wave passes.

SAW Instruments GmbH

For info: +49-(0)-228-812876-0 | www.saw-instruments.de



HIGH-VOLUME MICROPLATES

A 24-well microplate, with a working volume of 10 ml/well, has been developed for large-scale, high-yield growth of yeast. Produced under class 10,000 clean room conditions from virgin polypropylene, the new 24-well plate does not contain contaminants that may leach out and affect yeast growth. The wells of the high-volume plate are rectangular in shape with a 'v' bottom to facilitate easy yeast concentration and recovery. Each pack consisting of the high-volume, 24-well plates is secured within a virgin polymer bag and then passed through an irradiation procedure to sterilize the plates. Every batch of the sterile high-volume plates is rigorously tested to validate their contamination-free status ensuring reproducibility and maintaining customer confidence when growing yeast, bacteria, or cells. These high-volume microplates are precisely manufactured to ANSI/SBS-1 (2004) Footprint Dimensions making them fully compatible with automated liquid handling systems and other robotic sample processing equipment.

Porvair Sciences

For info: +44-(0)-1372-824290 | www.porvair-sciences.com

LIQUID WASTE DISPOSAL

The compact VACUSAFE laboratory vacuum system sets a new standard for simple, reliable, and safe aspiration of waste liquids. The VACUSAFE has a range of important safety features including a dependable liquid waste level sensor to prevent overfilling of the bottle and two hydrophobic filters that block potentially dangerous aerosols from entering the laboratory workspace. The self-sealing quick connectors prevent spills after disconnecting the tubing and a sturdy handle makes the carrying and emptying of the VACUSAFE waste bottle really simple and effortless. With a wide range of VACUBOY adapters included, removal of liquids is possible from virtually any container format. For laboratories looking for an all-in-one vacuum aspiration system the VACUSAFE combines a low-noise pump, a shatterproof collection bottle with quick connectors, and a versatile VACUBOY hand operator. The system is most handy to operate—switch on, set the desired vacuum, and start aspirating.

Integra Biosciences AG

For info: +41-81-286-9530 | www.vacusafe.info

CELL SORTER

The MoFlo Astrios next generation cell sorter leverages the stable fluidic design of the original MoFlo and the electronic processing of the MoFlo XDP, while expanding sorting capabilities with an array of laser options. A range of unique software components further enhances instrument functionality. Complex, multi-color sorting is enabled by seven pinholes that spatially separate each of the seven lasers. Auto startup allows the researcher to define when lasers and fluidics turn on, saving valuable time. The multi-fiber Beam Shaping Optic creates flat-top beam profiles, providing short alignment times and high-level optic stability. Two stages control the alignment for all seven lasers to simplify sorter preparation. The auto-quality control allows system performance to be tracked and trended across 32 available parameters, while the updated Summit Software permits six-way sorting into tubes and sorting into plates having as many as 1536 wells. Index-sorting logic tracks each plate-sorted cell back to its histogram or scatter plot. A touchscreen control panel facilitates daily setup with operations designed around core laboratory workflow.

Beckman Coulter

For Info: 800-526-3821 | www.coulterflow.com

IMAGING DATA MANAGEMENT

A new cellular imaging software solution, the Columbus Scope platform provides microscopy labs with an affordable, ready-to-go solution for managing the large volumes of data that cellular imaging experiments generate over time. With researchers under increasing pressure to demonstrate the accuracy of their results, as well as requiring faster and easier access to their image data, Columbus Scope enables microscopists to curate, retrieve, and reanalyze their image data, regardless of the source. The software platform can enhance microscopy in many therapeutic research areas, such as neurology, cancer, stem cells, developmental biology, immunology, and infectious diseases.

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LABEL AND LABEL-FREE TECHNOLOGIES IN SYNERGY

Creating a Powerful Approach to Drug Discovery

WEBINAR | **March 2, 2011**
12 noon ET, 9 am PT, 5 pm GMT

PARTICIPATING EXPERTS

William P. Janzen

University of North Carolina
Chapel Hill, NC

Charles A. Lunn, Ph.D.

Merck Research Laboratories
Kenilworth, NJ

Brian K. Shoichet, Ph.D.

University of California San Francisco
San Francisco, CA

Label-free technologies have gained wide acceptance in both academic research settings and in drug discovery laboratories in recent years. With the advent of faster and more accurate label-free technologies, and their pairing with traditional systems for labeled detection, the use of highly sensitive medium to high throughput cellular and biochemical assays in microplate format is now routinely possible. This advance offers scientists a fuller picture of their system under study and speeds the screening of compounds for drug discovery. This webinar will explore in depth the pros and cons of combining traditional label technologies with label-free assays, a so-called orthogonal approach.

During the webinar, our panelists will:

- Provide an overview of the various label-free technologies available
- Discuss how label-free technologies can be applied in drug discovery research
- Share their experience using a combination of label-free and traditional labeled detection systems
- Answer questions from webinar viewers live and in real time

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