



*Revolutionize life*

## *From red hair to red blood cells.*

Whether it's hair color or disease susceptibility, our unique genetic makeup plays a powerful role in determining who we are and shaping our lives. Our mission is to revolutionize how the world benefits from genetic information, which will enable people to make more informed decisions about their health.

Affymetrix GeneChip® technology has been pivotal in many landmark studies, including those named "Breakthrough of the Year" by *Science* magazine. Our technology offers the most complete view of the whole genome—to accelerate the development of diagnostics, help tailor treatments and ultimately cure the world's most critical diseases. Affymetrix is committed to developing innovative products that broaden our view of the human genome.

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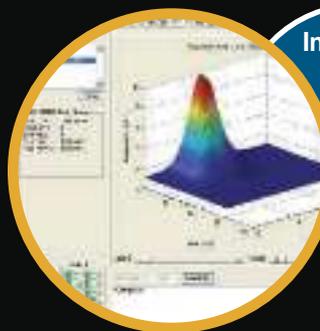
Measurements are rapid, accurate and highly reproducible. ECIS monitors cell behavior in tissue culture quantitatively and in real time. The ECIS Z & Z $\theta$  are the new standard in life sciences for impedance-based quantification of cell behavior in vitro.

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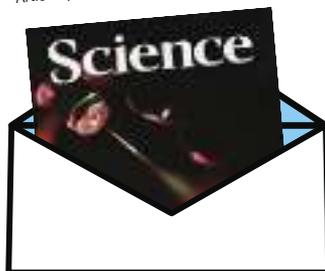
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**Genomics of Energy & Environment** is the topic of the 2009 Department of Energy Joint Genome Institute (DOE JGI) User Meeting, which will be held March 25-27 in Walnut Creek, California. This year's meeting will specifically emphasize the **genomics of renewable energy strategies, biomass conversion to biofuels, environmental gene discovery, and engineering of fuel-producing organisms**. The meeting will feature presentations by leading scientists advancing these topics. The meeting will also include informatics workshops and tutorials for the analysis of prokaryotic and eukaryotic genomes, and the evaluation of new sequencing platforms and their applications. Poster submissions are encouraged. Pre-registration is required as interest is expected to exceed meeting capacity again this year. Registration and a preliminary agenda can be found at: [www.jgi.doe.gov](http://www.jgi.doe.gov).

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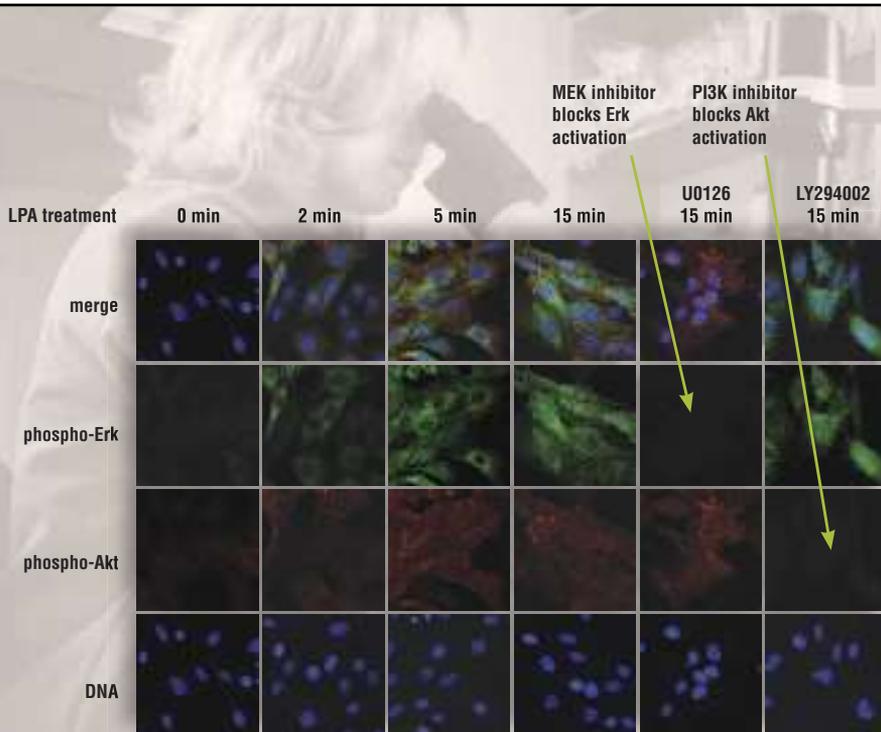


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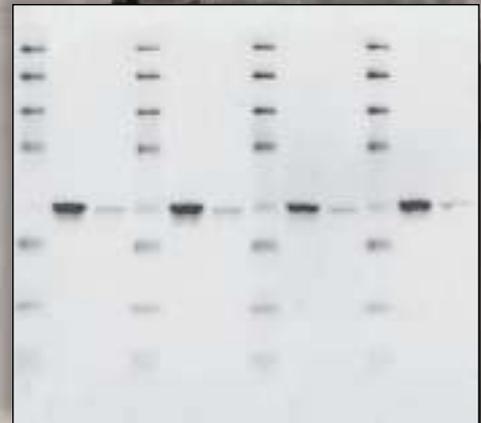


imagination at work



Treatment of C6 (rat glioma) cells with kinase-specific inhibitors to verify specificity using Phospho-p44/42 MAPK (Thr202/Tyr204) (E10) Mouse mAb #9106 (green) and Phospho-Akt (Ser473) (193H12) Rabbit mAb #4058 (red).

Side by side lot comparison using > Phospho-Akt (Ser473) Antibody #9271.  
 1: C2C12 cells +insulin (100 nM for 10 min.)  
 2: C2C12 cells, untreated



1	2	1	2	1	2	1	2	Lot release date
Lot 7		Lot 8		Lot 9		Lot 10		
8/1/2002		7/23/2003		2/12/2004		4/7/2006		

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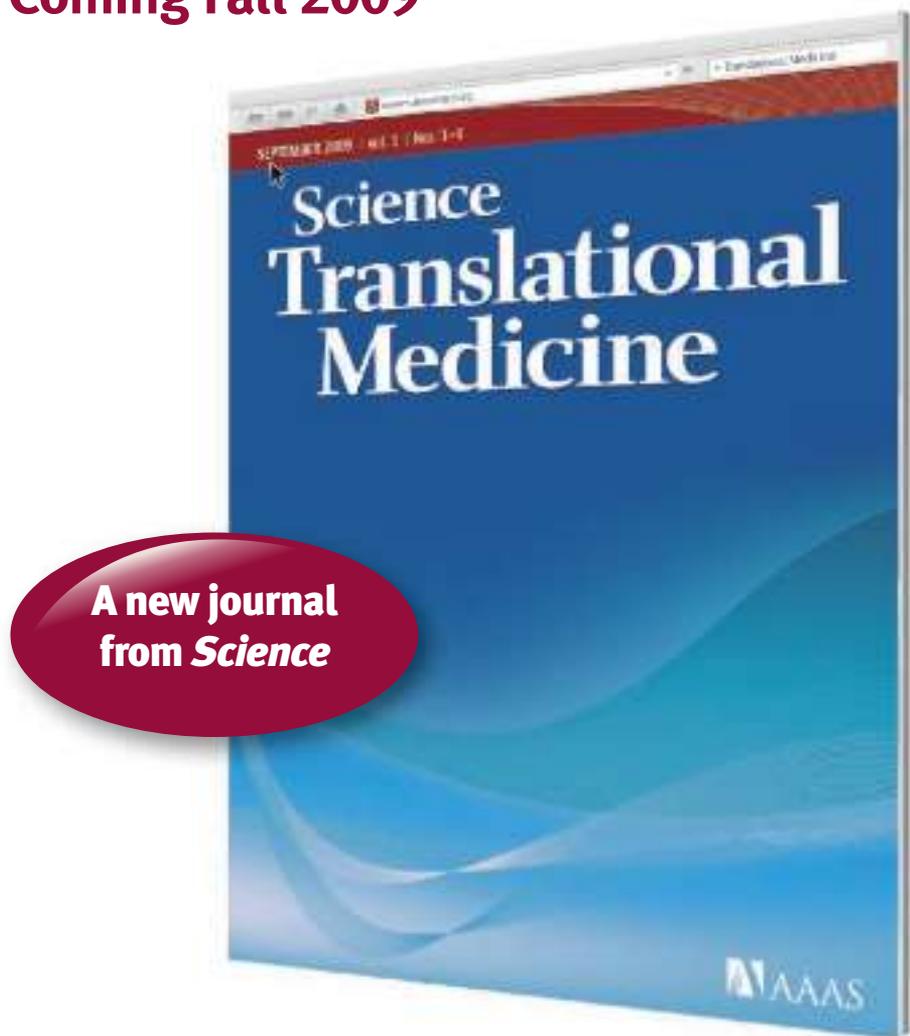
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The monthly print edition, to be published 12 times a year, will be a compilation of the weekly online edition and sold exclusively to subscribers of the online edition. The print issues will include a selection of the online content and all primary peer-reviewed research. More subscription details will be available as the launch date approaches. For more information contact the editor and product manager at [scitranslationalmed@aaas.org](mailto:scitranslationalmed@aaas.org). For information on site licenses and subscriptions to print, please contact [sciencemedicine@aaas.org](mailto:sciencemedicine@aaas.org).



## New Products

## Photometric Biochemistry Analyzer

The CuBiAn is a fully automated, membrane-free chemical analyzer that measures key parameters in cell culture media, including immunoglobulin G (IgG). The instrument offers high reproducibility with low operating costs in calibration and maintenance. Pipetting, sample predilution, and temperature control are all automated to provide significant assay ranges. The CuBiAn can detect IgG concentrations along with 11 different metabolites in a single sample and sequence. IgG is detected by immunoturbidimetry, while all other molecules are quantified by photometric enzyme assays. A wide measurement range allows for nearly unlimited flexibility for new assay methods. The key parameters measured are IgG, glucose, lactate, ammonia, glutamine, glutamate, inorganic phosphate, lactate dehydrogenase, total protein, sodium, potassium, and chlorine. It requires low sample volumes and can provide 90 results per hour.

[Innovatis](#)

For information 800-286-1631  
[www.innovatis.com](http://www.innovatis.com)



## Vortexer

The Eppendorf MixMate is the first vortexer available with independently verified data showing the low transfer of hand-arm vibration during operation. The use of a vortexing procedure to mix liquids causes transfer of vibration to the hand and arm, posing a possible risk. The daily maximum dose of exposure incurred with the MixMate was analyzed by the independent British institution, Industrial Noise & Vibration Centre. The results showed that the MixMate's two-dimensional rotating motion not only reduces hand-arm vibration to safe levels, it also provides rapid, reproducible mixing and vortexing for numerous tube and plate formats.

[Eppendorf](#)

For information +49-40-53801-0  
[www.eppendorf.com](http://www.eppendorf.com)

## Plasmid DNA Kits

The GET Plasmid DNA kits are spin-column purification kits for the isolation of high-quality plasmid from bacterial cultures. The kits are available in three different formats (maxi, medi, and mini) for use with various yields of plasmid. The kits feature an extraction method based on alkaline lysis of bacteria. The easy protocol eliminates toxic phenol/chloroform extractions or ethanol precipitations. The extracted plasmid is ready for further DNA manipulation such as restriction enzyme digestion, ligation, transformations, transfections, and sequencing.

[G-Biosciences/Genotech](#)

For information 314-991-6034  
[www.GBiosciences.com](http://www.GBiosciences.com)

## Mouse Sperm Cryopreservation Service

The Sperm Cryo service provides a simple, cost-effective process to freeze mouse sperm in a way that still achieves high fertilization and recovery rates. The process enables scientists worldwide to manage mouse colonies in a new way, reducing husbandry costs and the number of animals used in biochemical research. The ability to freeze mouse sperm reliably also provides a cost-effective way to safeguard unique and valuable mouse models of human disease. Freezing sperm is an effective way to conserve and distribute genetics in the agricultural industry, but before this process, the

sperm of certain varieties of mice underperformed woefully after being frozen and thawed.

[The Jackson Laboratory](#)

For information 207-288-6051  
[www.jax.org](http://www.jax.org)

## Ovens

A line of Lab Companion Ovens includes 11 models to satisfy the majority of laboratory applications, including forced convection, natural convection, economy, and vacuum model ovens. The forced convection models have a capacity from 2.1 cubic feet to 5.3 cubic feet with a temperature range from 10°C above ambient to 250°C. The natural convection models range from 1.8 cubic feet to 4.8 cubic feet with a temperature range from 15°C above ambient to 250°C. Two vacuum ovens are available with a chamber size of 1 cubic foot or 2.3 cubic feet. Both offer a temperature range from 5°C above ambient to 250°C.

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## Sample Volume Checker

The VolumeCheck is an automated system that enables precise and rapid determination of sample volume in unsealed deep- or shallow-well microplates, tube racks, and high-volume test tube racks. It is available in three configurations: a standard system, a high-speed model capable of scanning a complete 96-well plate in one minute, and a large volume model for test tube volume above 2 ml. The VolumeCheck makes use of proprietary acoustic sensor technology to provide high-accuracy, noncontact measurement. The user simply places a microplate or tube rack onto the input tray, which is automatically retracted into the VolumeCheck. In 60 seconds, measured volumes are displayed graphically for each microplate well or tube in the rack. The volume data are automatically associated with the microplate/tube rack identification and well/tube position and saved to an output file.

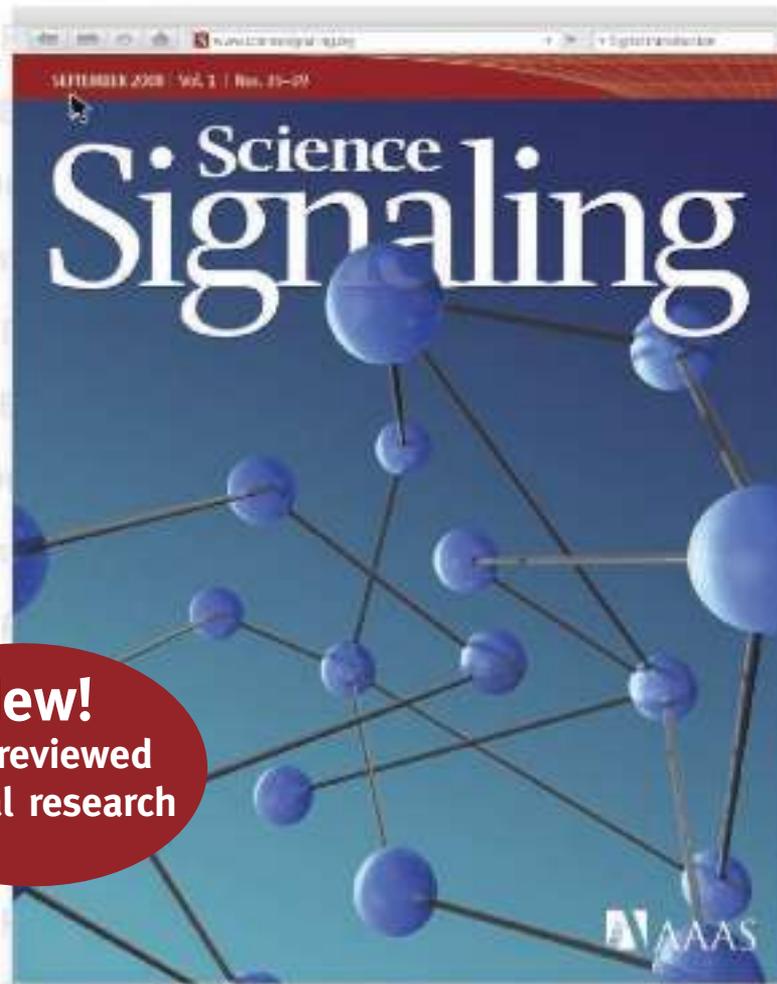
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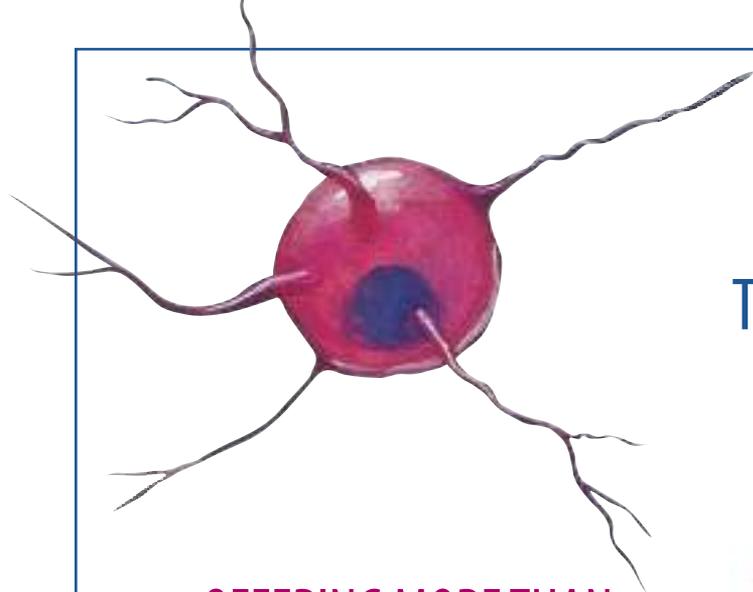
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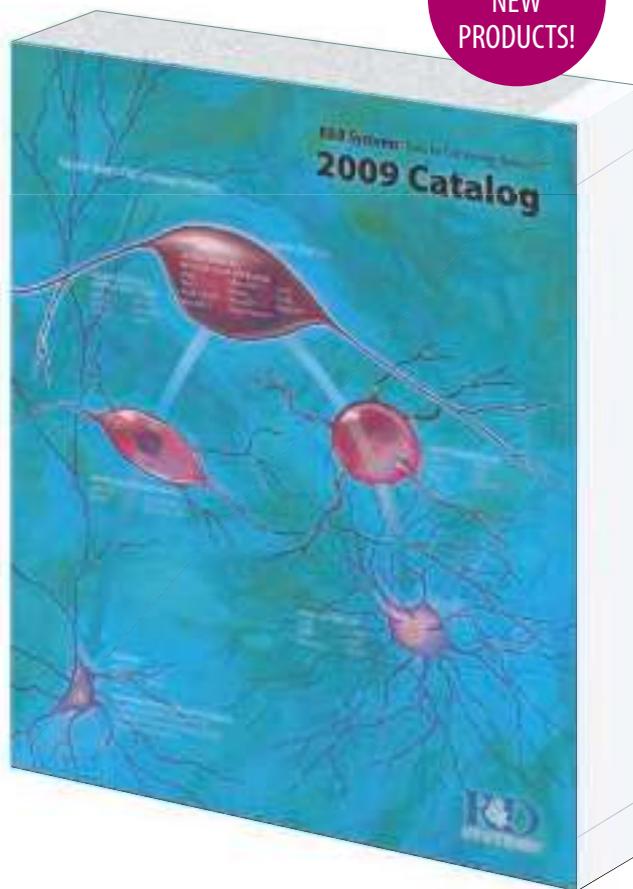


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