

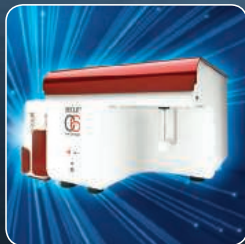
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The BD Accuri™ personal flow cytometer



Flow cytometry within reach.™



The BD Accuri™ Cytometer is a personal flow cytometer that puts flow cytometry within reach. It gives you 4-color cell analysis in an affordable, transportable, and easy-to-use format.

Measuring just 11 x 14.75 x 16.5 inches (27.9 x 37.5 x 41.9 centimeters) and weighing just 30 pounds (13.6 kilograms), the BD Accuri Cytometer gives both novice and experienced researchers the power of multicolor analysis, when and where you need it. The software's intuitive interface guides you through workflows, making it easy to begin collecting and analyzing data—even if you have little flow cytometry knowledge or know-how.



Helping all people
live healthy lives

Setup and maintenance are also simplified to increase availability and up-time. In the event service is required, just pack up the system and return it. A loaner system will be provided while your system is serviced.

For more information about how you can more easily access the power of flow cytometry in your lab, visit bdbiosciences.com/go/accuri.

Flow cytometry within reach.™

What is your **PASSION?**

In celebration of our 40th anniversary, New England Biolabs[®] is pleased to announce our Passion In Science Awards[™], recognizing those within the scientific community working to make a difference in the world through their science, humanitarianism, environmental stewardship or love of the arts.

Through September 30th, 2014, we invite you to nominate yourself or a colleague for one of these awards. Award winners will be our guests at a celebration at the NEB[®] campus in Ipswich MA, USA and will also receive a donation to help further their cause. Remember, no act is too big or too small.

Help us celebrate those individuals who demonstrate true passion in science.

Tell us your story.

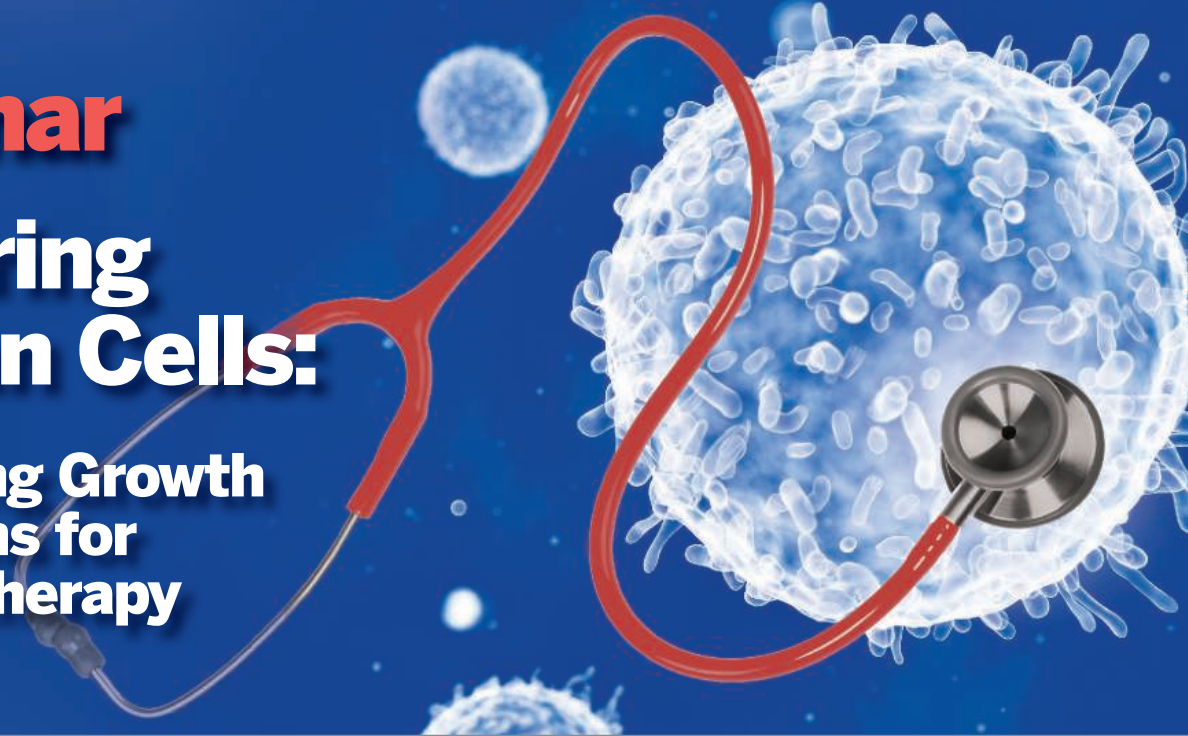
Visit NEBPassionInScience.com



Webinar

Culturing Human Cells:

Optimizing Growth Conditions for Immunotherapy



**Wednesday,
October 1, 2014**

12 noon Eastern, 9 a.m. Pacific,
5 p.m. UK, 6 p.m. Central Europe

During the webinar, the panelists will:

- Highlight how immunotherapy is currently being applied in the clinic and those factors important to generating high-quality cells
- Discuss the importance of perfusion to achieving high cell yield and its effect on cell markers and characteristics
- Focus on optimization of culture conditions when generating cells for reperfusion into patients
- Answer your questions live during the webinar!

Register Now!
webinar.sciencemag.org

Growing human cells in culture for research is one thing, but the isolation and culture of high-quality cells that will be re-injected back into the donor is quite another. Manipulation and expansion of cells in a clinical setting carries its own unique requirements and complications. Growth and survival needs to be optimized and quality control is paramount. Often only a single opportunity for successful treatment is possible, so chances of success need to be maximized in all respects, including high-yield isolation of good quality cells from patients, cell culture conditions, cell characterization, and reperfusion back into patients. During this webinar, we will broadly discuss the process of immunotherapy as well as examine in more detail some of the most critical steps along the pathway to generating a therapeutic dose of modified cells.

Speakers



Laurence J. N. Cooper, M.D., Ph.D.
MD Anderson Cancer Center
Houston, TX



Michelle Janas, Ph.D.
GE Healthcare
Cardiff, Wales

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NGS Library Prep

MagSi-NGSPREP is a magnetic, bead-based tool that offers an efficient solution for DNA cleanup and size selection in next generation sequencing (NGS) applications. MagSi-NGSPREP supports all standard DNA clean-up protocols encountered during Next-Gen library preparation, including the classical one-sided and two-sided "solid phase reversible immobilization" size selection protocols. The simple and flexible protocols employed using MagSi-NGSPREP can be adjusted to your specific application and NGS platform. MagSi-NGSPREP can be used manually but is also easy to automate for high throughput processing. Using MagSi-NGSPREP, DNA fragments are bound directly onto the surface of the magnetic beads, leaving unincorporated nucleotides, primers, primer dimers, and other contaminants in solution. Following this the DNA fragments are eluted with low salt buffer or reagent grade water. The technology for binding of DNA fragments onto the applied magnetic nanoparticle surface does not require use of any hazardous chaotropic buffers.

AMS Biotechnology

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Water Purification System

ELGA LabWater's PURELAB flex 5 and 6 are all-in-one, fully automated, standalone water purification systems for ion chromatography built to eliminate the need for eluent monitoring and water refilling. Delivering volumes up to 10 L per day, the PURELAB flex 5 is perfect for general use labs, while the PURELAB flex 6 is optimized for usage above 10 L per day. A closed architecture avoids eluent contamination. The multi-usage systems deliver high-quality water throughout the workflow, including eluent generation, system rinsing, and general laboratory applications. They also reduce eluent preparation time compared to using bottled water. With these benefits, PURELAB flex 5 and 6 offer a unique "switch on and walk away" solution for ion chromatography, enhancing detection accuracy through improved water stability and purity.

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Magnetic Bead

Immunoprecipitation System

The SureBeads Magnetic Bead System provides researchers with a faster and easier alternative to agarose beads for immunoprecipitation (IP). Benefits include: reduced antibody consumption and sample loss, very low nonspecific binding, and optimized IgG binding capacity. Researchers have traditionally used agarose beads to precipitate and enrich proteins prior to Western blotting or mass spectrometry. Magnetic beads are an attractive alternative to agarose beads for several reasons, chiefly ease of use at the bench: magnetization is faster and more convenient than centrifugation for sample precipitation and washing steps. More researchers would likely switch to magnetic beads if they were not significantly more expensive than agarose beads. With the launch of the SureBeads System, scientists now have access to a high-performance, cost-effective magnetic bead system. SureBeads Protein A & G Conjugated Magnetic Beads are designed to work with the SureBeads 16-Tube Magnetic Rack.

Bio-Rad Laboratories

For info: 800-424-6723
www.bio-rad.com/newsurebeads

Spectrophotometer

SimpliNano is a simple-to-use microvolume spectrophotometer for straightforward concentration and purity measurements of nucleic acids and proteins. There are no moving parts in SimpliNano, making it reliable and easy to maintain, with excellent instrument reproducibility. The fixed path length means samples can be added and removed without the need for time-consuming calibration. Small volumes down to one microliter can be

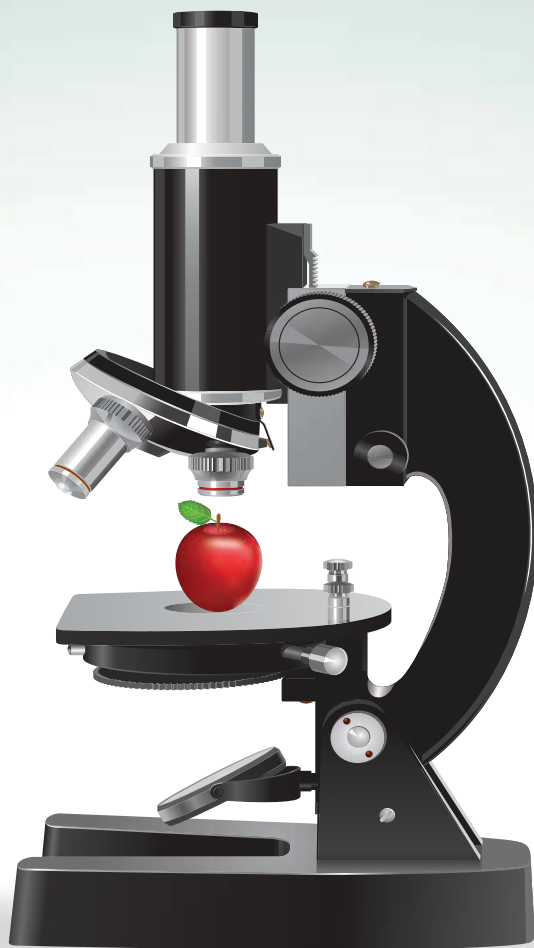
analyzed by pipetting directly into the built-in sample port, reducing sample loss, and eliminating the need for cuvettes or other sampling tools. Samples can be recovered or wiped away after measurement and the sample port is compatible with a variety of common laboratory chemicals. SimpliNano is programmed with a range of methods for conveniently measuring nucleic acid concentrations at 260 nm and proteins at 280 nm as well as purity. The spectrophotometer offers freedom of choice as it can be operated through its direct user interface, or through a PC with optional Datryst software.

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WE'RE TAKING A CLOSER LOOK AT THE EVOLVING STATE OF CHEMICAL EDUCATION

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Cells	Target	# Plates	Treatment
4/52L-293T	PAC1/MAPK	2	mech, tamoxifen
4/15T Tmg	Eglin	MDAMB231+46%	
L293T	CDK10	2	Meq, Tamoxifen
L293T	Axonal	2	Meq, Tamoxifen
ovun 5/c. Hela	PMyr1	2	-/+ 407032 (0.2uM 5')
T ZRF5.1		1	WT
LJunkat	PIM2/14	2	-/+ NES 12h
HCT116	P-ATM	2	-/+ NES
3T3	P-PS3	2	-/+ Dox 24h
293T	P-ATR	2	-/+ W24h



Does your antibody measure up?

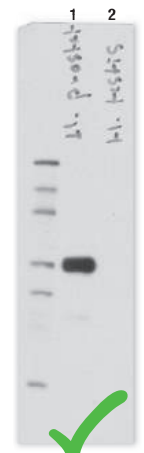
Susan, Development Scientist, has been with CST since 2003.

At CST, if it's not specific, it doesn't ship.



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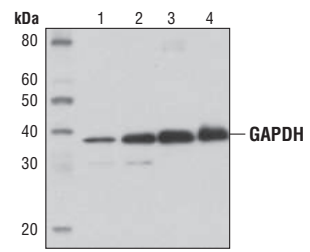
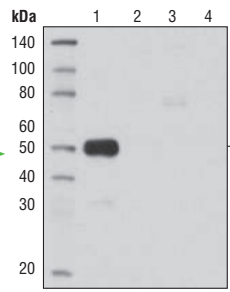
Non-specific bands



CST APPROVED

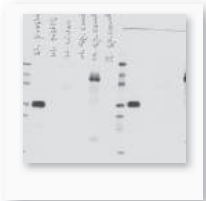
Clean Band

WB analysis of extracts from human prostate and testis using two development samples at 1:1000 dilution.



Prostatic Acid Phosphatase (D3Y5P) Rabbit mAb #12861: WB analysis of extracts from human prostate, testis, liver, and spinal cord using #12861 (left) and GAPDH (D16H11) XP® Rabbit mAb #5174 loading control (right) demonstrating prostate-specific expression of ACPP.

- 1 - Human Prostate Tissue
- 2 - Human Testis Tissue
- 3 - Human Liver
- 4 - Human Spinal Cord.



Skeptical? See the whole film at www.cellsignal.com/wbskeptical

14PAD1HC_NON016ZENIG_02

- WB
- IP
- IHC
- IF
- F
- ChIP

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