

### 5 $\mu\text{m}$ Particle Size Column

5  $\mu\text{m}$  particle size Aeris PEPTIDE core-shell columns enable higher efficiencies and higher loading capability for small-scale peptide purification in 10 mm ID semi-prep columns and 21.2 mm ID Axia-packed prep columns. Aeris PEPTIDE is fully scalable over four particle sizes—1.7  $\mu\text{m}$ , 2.6  $\mu\text{m}$ , 3.6  $\mu\text{m}$ , and 5  $\mu\text{m}$ —enabling easy method transfer from analytical high-performance liquid chromatography (HPLC) and UHPLC to preparative applications. Aeris PEPTIDE is ideal for biomolecule separations in pharmaceutical and life science applications. The Phenomenex Axia preparative format delivers longer column lifetime, higher efficiencies, improved performance, and high reproducibility, compared to conventionally packed columns for lab-scale preparative chromatography.

#### Phenomenex

For info: 310-212-0555  
www.phenomenex.com

### Multiphoton Excitation Objectives

Dedicated to multiphoton excitation microscopy, Olympus introduces its XLPLN10XSVM and XLSLPLN25XGMP objective lenses with an 8 mm working distance and support for a large range of refractive indices. The objectives enable super-deep imaging of tissues treated with the latest clearing agents as well as live-cell imaging and light sheet microscopy techniques. Compatible with the industry leading FVMPE-RS and FV1200MPE multiphoton microscopy systems and easily adaptable to home-build light sheet microscopes, the new objectives boast a range of features providing important benefits to researchers. Both objectives offer super-long working distances of 8 mm, providing the capability and space for structural and live-cell imaging deep within large intact samples. A high transmittance range of 400–1,600 nm extending into the infrared spectrum allows deeper imaging with minimal damage to the tissue, and is well-suited to combine conventional multicolor MPE imaging with label-free methods like third- and second-harmonic generation.

#### Olympus

For info: +49-40-23773-5913  
www.olympus-europa.com/microscopy



### Cardiomyocyte Measurement Platform

The xCELLigence RTCA CardioECR System combines impedance and Multi Electrode Array (MEA) technology with a pacing function. RTCA CardioECR is the first platform to allow simultaneous cardiomyocyte contractility and field potential measurement. The system is designed to be placed in a standard tissue culture incubator with physiological temperature, CO<sub>2</sub> level, and humidity, allowing better controlled assays with both short-term and long-term measurements in real-time. With the added MEA capabilities and pacing stimuli, the new CardioECR System allows for a deeper assessment of mechanisms of toxicity. Field potential recording provided by MEA electrodes is a measure of the integrated ion channel activity that may be impacted by the tested compound, whereas the pacing function allows for controlling the rate of contractility for a more controlled assay. Furthermore, this combined dual readout system also provides a longer-term measurement of cardiomyocyte viability which can potentially identify those compounds causing longer-term structural damage to cardiomyocytes.

#### ACEA Biosciences

For info: 866-308-2232  
www.aceabio.com/cardioecr

### SPE Microplate

The Development Microlute is a Solid Phase Extraction (SPE) microplate which provides a wide assortment of phase chemistries and sorbent loadings in a single plate making it ideally suited for method development. Offering scientists a choice of up to 12 different phases and sorbent loadings (10–100 mg) in a standard format 96-well plate, the Development Microlute allows you to simply and rapidly screen for the optimal retention and selectivity required to achieve your sample preparation objectives. The Development Microlute has been designed to provide all the advantages of automated and high throughput SPE sample preparation in a convenient microplate format capable of rapidly processing 96 samples in one go, repeatedly and precisely. Constructed from a single piece of molded high-quality polypropylene, a Development Microlute plate will not bend or distort because individual SPE cartridges do not have to be repeatedly plugged in and out.

#### Porvair Sciences

For info: +44-(0)-1978-666239  
www.porvair-sciences.com

### Gel Electrophoresis Units

The MultiSUB range of horizontal gel electrophoresis units includes a comprehensive choice of optimized units for low and high throughput DNA and RNA applications. Each unit provides an easy-to-use, versatile, and flexible system that can evolve and adapt with the changing needs of today's laboratory researcher. All five units in the Cleaver MultiSUB gel electrophoresis range deliver an unsurpassed combination of economy of gel and buffer volume, with gel size, and sample number versatility. Gel size and sample number requirements can be exactly matched in each unit, with the option of additional gel tray sizes. All units feature removable ultraviolet transparent trays. For optimum value and versatility, systems are available with one, two, or three tray options. Easy-to-use, leak

proof "plug and go" gel casting dams are included as standard to allow gels to be rapidly cast whilst the MultiSUB unit is in use for gel running.

#### Cleaver Scientific

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# Science

## New Products

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