Multi-Tube Vortex Mixer
The TT-2500-VM Multi-Tube Vortex Mixer is designed to provide gentle to vigorous mixing of reagents at an adjustable speed of 500 rpm–2,500 rpm for up to 50 test tubes simultaneously. Packed with a range of features, the microprocessor-controlled unit has an easy-to-read LED display, a variety of available tube frames to hold different test tube sizes, and two built-in-operation modes that can be run either by short mixing or time mixing. The vortexing action is created by holding the top of the vessel securely in place and moving the bottom tray freely in a defined orbit. A DC brushless motor creates quiet and rattle-free mixing. The TT-2500-VM is ideal for use in high-throughput testing labs such as clinical, environmental, and chemistry labs.

Hercuvan Lab Systems
For info: 858-335-8871
www.hercuvan.com

Organoid Progenitor Cells
Cultrex Organoid Progenitor Cells, derived from normal, healthy mouse small intestine tissue, are now available and suitable for gene editing. These cells can be expanded using reduced growth factor BME-R1, and may be induced to express tissue-specific markers under differentiating conditions. Cultrex cells will be of particular interest to the large number of leading research groups worldwide that specialize in drug screening applications and use BME 2 organoid matrices. These cells are also ideally suited for use in common gene editing techniques such as CRISPR/Cas9 when developing models for infectious diseases and cancer, and also for studying the normal intestine. Organoid 3D cultures are extracted directly from living tissues similar to primary cultures. Instead of using an artificial, tissue culture–treated plastic environment, stem cell populations are maintained using an extracellular matrix environment under nondifferentiating conditions. When subjected to differentiating conditions, these organoids exhibit expression of tissue-specific genes and differentiation of stem cells into tissue-specific architecture.

AMS Biotechnology
For info: +44-(0)-1235-828200
www.amsbio.com/organoids.aspx

GC Solution
The Agilent Intuuo 9000 gas chromatography (GC) solution offers users new, innovative technology that will help laboratories meet operational, scientific, and financial goals. Click-and-run connections eliminate ferrules, the Guard-Chip technology extends column life, and the trim-free column eliminates retention time shifts caused by column-trimming maintenance. With Intuvo Flow Technology chips and Smart ID keys, the Intuvo 9000 system self-identifies installed components and self-configures methods. Operations like mid-column backflush are made routine by eliminating complex setup and extra calculations. The touchscreen user interface provides quick access to system status and real-time data, and guides the user through routine maintenance operations. Connection via smartphone or tablet notifies laboratory managers remotely of system status. The new system, especially when coupled with mass spectrometry, is ideal for high-throughput contract laboratories and labs dealing with challenging sample matrices in fields such as food, environmental, chemical, pharma, and forensics testing.

Agilent Technologies
For info: 800-227-9770
www.agilent.com

SPE Sample Preparation
The Microlute SPE sample preparation system provides a fast, trouble-free alternative to cartridges for high-productivity sample cleanup. The Microlute system enables researchers to increase their assay sensitivity by providing reliable preinjection cleanup and concentration on samples as small as 150 μL. Supplied as a package including filter plate, collection plate, waste tray, and manifold, this system contains all the elements needed to deliver rapid and efficient solid-phase extraction (SPE) sample preparation in a convenient microplate format. Microlute SPE plates are available with a choice of sorbent, filter, and sample collection plates (350-μL, 1-μL, or 2-μL well volumes) to optimally match sample cleanup requirements. Using a proprietary sorbent-slurry loading technique, the plates have been developed to eliminate channeling effects that typically limit the performance of dry powder–loaded SPE columns. Each well on a Microlute plate has an individual drain spout ensuring 100% sample transfer and zero crossover contamination.

Porvair Sciences
For info: +44-(0)-1978-666222
www.porvair-sciences.com

Epigenetic Assay Kits
A range of optimized chromatin immunoprecipitation (ChIP) assay kits are available for use in many areas of genome research, including classical quantitative PCR, DNA sequencing, and FFPE sample analysis, using either discrete spin columns or dedicated 96-well filter plates. Chromatrap's solid-state ChIP technology has been shown by a growing number of research groups worldwide to be more efficient than conventional bead-based methods. Its solid-phase porous polymer, functionalized with either Protein A or G, provides a greater surface area for chromatin antibody binding with very low nonspecific binding. In addition, it uses a spin-column approach, offering significant speed, process, and carryover advantages over sepharose or magnetic beads. DNA pulldown with Chromatrap is up to 25 times greater than that achieved with conventional methods, while its signal-to-noise ratio for DNA enrichment is 2 to 3 times better, even with low chromatin samples between 50 ng to 3000 ng per immunoprecipitation.

Chromatrap
For info: +44-(0)-1978-666222
www.chromatrap.com/products

Gel-Imaging System
HeroDoc Plus is a gel documentation system that many customers are finding checks all their boxes when it comes to the capture and imaging of gels and blots. The system is compact (40 cm × 52 cm) and easy to use. A fully protective, hinged UV screen enables viewing of the transilluminator surface for preparative work when the hood is open. For safety purposes, the UV protection screen will also switch off the UV light when it is in the up position. A scientific-grade CCD camera featuring a distortion-free megapixel lens with software-controlled motorized adjustment of sharpness and aperture further enhances the system’s capabilities. The mid-wave transilluminator has a new high-contrast filter peaking at 302 nm–312 nm, resulting in exceptional image quality. The 28 cm × 22 cm filter can accommodate a wide range of laboratory gels.

Herolab
For info: +49-(0)-6222-5802-0
www.herolab.de/index.php/en