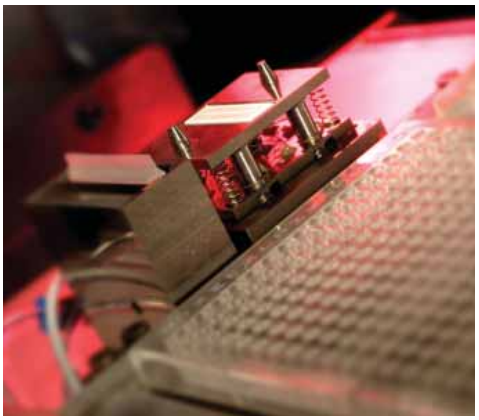
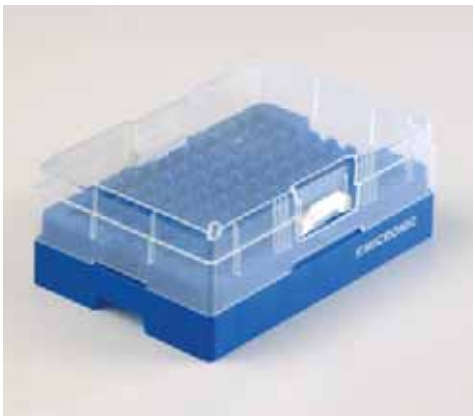


« The Sprint benchtop inkjet microarray spotter from Arrayjet



» The RoboRack-96 from Micronic

Boom, Boom, Boom!

Tools that enable assays to be run one after another

In today's laboratories, researchers need to analyze high sample volumes with multiple assays. The tools below will help you streamline your laboratory, so that different assays can be run one after another with minimal breaks in your workflow.

The new **NUNC LiveCell Array** is the first microscope slide-based high content analysis (HCA) tool that enables multi-parametric, imaging-based assays on thousands of intact individual cells, including non-adhering blood and bone marrow cells. Scientists will now be able to observe each cell at its own identified location, tracking its individual, real-time responses to intervention. The disposable NUNC LiveCell Array microscope slide contains an embedded, transparent array of pico-wells available in sizes of 15, 20, 100 or 250 microns in diameter. The design facilitates the flow of reactants, reagents and media solutions used in various studies, and also enables perfusion of the cells in the array wells. Individual cells settle into the pico-wells by means of gravity, and are not displaced by rinsing or staining. Imaging and data analysis software allows scientists to designate an address to each cell. In addition to the standalone slide, NUNC LiveCell Array is also supplied in kits that include reagents, buffers and protocols for assays involving apoptosis or CD3, CD4 and CD8 cell surface markers. The **NUNC 96** and **384 Well Optical Bottom Plate** features new materials and surfaces with enhanced capabilities for cell assays and drug discovery. The plates combine an upper structure bonded to a clear base that provides superior optical clarity in imaging applications using microscopes or plate readers. For improved imaging, the plates are available with upper structures in black for fluorescence studies, or white for luminescence assays. There are three optically clear materials used for the plate bottoms: #1.5 borosilicate cover glass, polystyrene or fluorocarbon. Also improved are the NUNC 384 Well Optical Bottom Plates, which have a redesigned skirt style to facilitate superior robotic handling and bar-coding functions. **More information: www.nuncbrand.com**

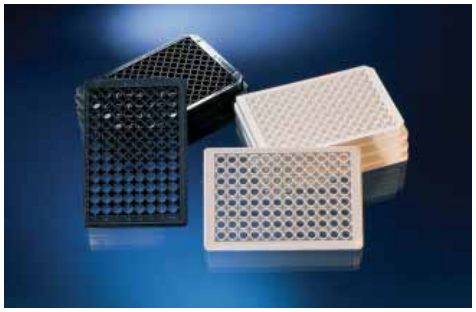
Eppendorf introduces **Deepwell 96** and **384 plates**. They feature the RecoverMax well design, maximizing the recovery of valuable samples and minimizing contamination risk, and OptiTrack alphanumeric coding, easing identification of individual wells and reducing error. The plates' high quality of raw materials and innovative production process set new standards in terms of purity, stability, centrifugation and automation compatibility. Plates 96/500 µl, 96/1,000 µl, 96/2,000 µl and 384/200 µl are available in white, yellow, red, green and blue as well as standard, sterile, DNA/RNA LoBind and Protein LoBind quality formats (96/2,000 µl available in only standard and sterile formats). **More information: www.eppendorf.com**

The **IN Cell Analyzer 1000** from **GE Healthcare** is an automated cell imager designed for scientists involved in basic research, assay development, and pharmaceutical hit-to-lead characterization where a wide variety of cell-based analyses are performed. The compact bench-top instrument comprises an automated Nikon microscope, high-resolution CCD camera, xenon lamp-based illumination, filter wheel based wavelength control, and laser based auto focus. **More information: www.gehealthcare.com**

Genevac introduces a new innovation in solvent evaporation technology called the **SampleGenie**, which enables Genevac's popular EZ-2 and HT series centrifugal evaporators to accelerate the pooling of multiple large volume fractions into a single small sample vial. Constructed in a choice of glass or 316 L stainless steel, a SampleGenie is available to cope with most solvent types. It is available in 3 sizes (50 ml, 125 ml and 300 ml). **More information: www.genevac.com**

The **RoboRack-96** from **Micronic** is an innovative chemically resistant polypropylene tube rack which incorporates productivity enhancing features for automated applications including sample storage, liquid level

» The Deepwell plates from Eppendorf



» The Optical Bottom Plates from NUNC

sensing and laboratory logistics. Accommodating 96 individual 1.4 ml tubes in the industry standard 96 well configuration, the RoboRack-96 conforms to the globally recognized ANSI/SBS-1 (2004) Footprint Dimensions. A unique contoured well top (Sure-Shot) design allows tubes that are not perfectly delivered to the desired vertical rack location to be positively guided into the correct well location. An additional benefit of the contoured well shape is that it also offers improved access for robotic grippers to retrieve tubes. **More information: www.micronic.com**

Arrayjet introduces the **Sprint** benchtop inkjet microarray spotter. Designed for printing smaller batches of slides in a more R&D-focused mode, the Sprint has the capacity for 20 microarray slides to be loaded and printed from two microtiter plates (96 or 384 well) in a 'walkaway' mode; two further plates may be added manually by the user in a 'relay' mode. Additional substrate carriers will also be available for the Sprint to enable printing onto non-glass slide substrates such as silicon-wafers or glass-bottomed plates, making it a more flexible offering than the larger instruments. The introduction of the Sprint has also led Arrayjet to name its other products appropriately. The Aj100 will now be known as the Marathon, the Aj120 as the Super-Marathon and the Aj100/Aj120, with additional slide stacker, as the Ultra-Marathon. **More information: www.arrayjet.com**

The **Ultravap** from **Porvair** is a robot compatible high-speed system for concentrating samples in 96 or 384 well microplates. Significant increases in sample throughput are achieved through advanced evaporator head technology and an innovative manifold design, which directly injects heated nitrogen into each individual well of the microplate simultaneously. The system is proven to remove even the most stubborn solvents in just minutes. For heat sensitive and thermally labile samples the Ultravap may be operated in a unique two-stage mode combining rapid initial dry-down with carefully controlled final solvent evaporation. **More information: www.porvair.com**

Velocity11 announced the application of its **BioCel Automation System Platform** for use in high-throughput *in vitro* ADME/Tox assays. The BioCel Automation System delivers the functionality of much larger systems in an efficient innovative package optimized for speed. The BioCel is a fully capable sample-processing platform for assembling genomics reactions, dispensing samples for compound preparation, or processing biological samples in screening applications. The system's event-driven scheduler supports multiple plate formats and labware, multiple protocols, and linear and parallel process flows, while the software accommodates expansion of the system to include additional modules and access to new third party devices. **More information: www.velocity11.com** ■

Companies Mentioned in this Product Spotlight:
Arrayjet: www.arrayjet.com
Eppendorf: www.eppendorf.com
GE Healthcare: www.gehealthcare.com
Genevac: www.genevac.com
Micronic: www.micronic.com
NUNC: www.nuncbrand.com
Porvair: www.porvair.com
Velocity11: www.velocity11.com

These pages were compiled and written by Kenyon Hoag Associates. The contents have not been reviewed by the editorial staff of The Scientist. Submit press releases for consideration to: spotlight@the-scientist.com