new products: automation

LIFE SCIENCE TECHNOLOGIES

Compressed O-Ring Expansion (CO-RE) pipette tips, which feature a tight seal to ensure precision and accuracy during liquid-handling steps. Patented dispersive mixing technology in the IMCStips facilitates maximum contact between each resin and protein of interest and efficient binding of the target analyte for high recovery during elution. A predefined hardware configuration processes up to 96 samples in 10 min–30 min compared to throughput-limiting and lengthy manual methods such as traditional spin columns.

Hamilton
For info: 800-648-5950
www.hamiltoncompany.com

BioTek announces that Agilent’s BenchCel Microplate Handler is now added to its portfolio of walkaway automated solutions. The modular BenchCel Microplate Handler is a high-speed robot with an open, flexible, and scalable format to bring efficiency to diverse applications such as ELISA, endpoint add-and-read assays, and cell fix–stain–image processes. By integrating BenchCel between a BioTek liquid-handling device and detection or imaging system, sample throughput is increased while manual intervention is decreased. BenchCel is powered by VWorks software and incorporates an easy-to-use interface for dynamic scheduling of workflows. Additionally, user-friendly software interfaces may be created for a streamlined experience. Compatible BioTek devices include the EL406 Washer/Dispenser, MultiFlo FX Multi-Mode Dispenser, Synergy Neo2 Hybrid Multi-Mode Reader, Epoch 2 Microplate Spectrophotometer, and Cytation 5 Cell Imaging Multi-Mode Reader. With its small footprint, BenchCel may be used on the benchtop or in a biosafety cabinet, and for added flexibility it is compatible with a variety of microplates, including deepwell plates.

BioTek
For info: 888-451-5171
www.biotek.com/products/software-robotics-robotics/benchcel

3D Bioprinter
Analytik’s BioScaffolder Prime is an affordable, high-performance 3D bioprinter that delivers precision engineering in an advanced, customizable platform. The rapidly expanding field of 3D bioprinting for tissue engineering and regenerative medicine combines biocompatible/biodegradable polymers with living cells. This attractively priced yet complete bioprinter package enables researchers to create bioscaffolds for cell growth and to deposit layers of bioinks on implants or microfluidic objects. This multiheaded 3D bioprinter can be equipped with multiple dispensing tools, including unique core/shell tools for simultaneous dispensing of different materials. Decentralized units for printing, media control, and computing save precious space in your biosafety cabinet and ensure superb heat dissipation. Silent but smart XYZ-drives deliver micrometer precision. In addition, the system comes with a Peltier heater/cooler cartridge for temperature-controlled bioprinting and a built-in UV source UV-LED pen. Designed to fit and operate in a standard biosafety cabinet, BioScaffolder Prime allows you to undertake your 3D printing applications quickly, safely, and in a sterile environment.

Analytik
For info: +44-(0)-1954-232776
analytik.co.uk/product/3d-bioprinter-bioscaffolder

SARS-CoV-2 Testing Workstations
With the ability to process up to 10,000 samples per day on a single system, the scalable and modular explorer automated workstations for SARS-CoV-2 testing improve the efficiency of laboratories 24/7 while eliminating errors and reducing labor requirements, by automating and standardizing disparate workflow steps. Different versions are configured for either reverse transcription PCR or ELISA testing, with varying degrees of automation based on workload and staffing resources. The scalable and modular nature of these workstations ensure that as your needs change, your automation solutions change with you. After the coronavirus pandemic subsides, your explorer workstations can be used to automate other laboratory processes.

PerkinElmer
For info: www.perkinelmer.com/contactus
www.perkinelmer.com

Protein Purification Workstation
Hamilton Company and Integrated Micro-Chromatography Systems (IMCS) introduce the affinityPure STAR assay ready workstation for the automation of high-throughput, small-scale affinity purification workflows, such as the Protein A purification of antibodies while screening biotherapeutics against SARS-CoV-2, the novel coronavirus that causes COVID-19. The affinityPure STAR is also ideal for other large-molecule research and manufacturing applications. Specialized affinity purification IMCStips used in the workflow contain resins such as Protein A, with custom formulations available upon request. The resins are loosely packaged in Hamilton’s automation-ready Compressed O-Ring Expansion (CO-RE) pipette tips, which feature

AMS Biotechnology (AMSBIO) announces a service designed to provide high-content cytometry data on cells and tissues, enabling the automated analysis of fluorescent biomarkers on living cells or long-term, stored biobanked cells and tissues. Leveraging the innovative ChipCytometry platform, AMSBIO can offer a complete workflow solution (products and services) for high-content cytometry on cells and tissues, from sample preparation and biobanking to biomarker analysis and data mining. The ChipCytometry platform operates by immobilizing cells in microfluidic chips, which are later stained with antibodies for multiplex biomarker detection. The platform allows quantitative analysis of a virtually unlimited number of protein biomarkers in a single sample. AMSBIO also provides custom assays facilitating analysis of almost any antibody/biomarker target. This technology not only delivers quantitative biomarker analysis but also facilitates both pre- and posttreatment immune-cell profiling—a key part of characterizing the complexities of cancer biology. AMSBIO offers stable sample storage and reinterrogation for up to 2 years. All customers using this service receive a detailed analysis report as well as the full .fcs raw data file.

AMS Biotechnology
For info: 617-945-5033
www.amsbio.com/cytometry-service

Automated Analysis of Fluorescent Biomarkers
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AMS Biotechnology
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www.amsbio.com/cytometry-service