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PerkinElmer to Showcase Innovative Workflow Solutions at SLAS 2018

Discoveries and Breakthroughs Begin by Empowering Scientists with PerkinElmer's High Content Screening, High Throughput Screening and Genomics Offerings

WHAT: PerkinElmer, Inc., a global leader committed to innovating for a healthier world, today announced that it will display its automated workflow solutions for high content screening (HCS), high throughput screening (HTS) and genomics at the 2018 Society for Laboratory Automation and Screening (SLAS) Conference. SLAS brings together life sciences professionals to discover new technologies and advance their research objectives.

"In today's complex, fast-paced and highly competitive R&D environments, scientists rely upon the latest tools to help support their efforts toward achieving breakthroughs," said Jim Corbett, Executive Vice President and President, Discovery & Analytical Solutions, PerkinElmer. "Our technologies enable researchers to shorten the time from molecule to medicine by obtaining more physiologically relevant data quicker, automating workflows for next generation sequencing, and reducing the time it takes to obtain leads, so they can focus on what's most important: making new discoveries."

WHEN: February 3-7, 2018

WHERE: San Diego Convention Center
PerkinElmer Booth #828

ON DISPLAY: PerkinElmer will highlight several offerings from its comprehensive portfolio of HCS, HTS and genomics products:

High Content Screening

Harmony® High-Content Imaging and Analysis Software: brings new insights and perspectives to high-content screening workflows and greater physiological relevance in early drug discovery. The software enables scientists to visualize and analyze cell models in 3D, in combination with PerkinElmer's Opera Phenix® and Operetta® CLS™ HCS systems and microplates.

These capabilities allow scientists to explore and analyze cellular models from every angle, see spatial relationships, and measure, count and quantify in 3D, in ways not possible in 2D.

Columbus™ Plus Image Data Storage and Analysis System: High Content Screening (HCS) experiments generate massive amounts of image data that need to be accessed quickly, analyzed, shared with colleagues, and stored safely. More sophisticated tools are required to numerically describe cells and their phenotypes comprehensively especially as researchers use more complex, physiologically relevant disease models. The Columbus Plus image data storage and analysis system supports a wide range of file formats which allows easy visualization of images regardless of origin. The solution offers real-time image analysis with cluster-based high performance computing (HPC) with Columbus Building Blocks. The Columbus Plus software is available as an on-premise installation or as a hosted cloud service.

High Throughput Screening

EnVision® Multilabel Plate Reader: brings new efficiencies to high-throughput screening workflows. This system provides new capabilities, including enhanced time-resolved fluorescence (TRF) performance, for use with assay technologies such as LANCE® and DELFIA®, new Alpha capability for a broader range of applications and improved software tools to facilitate 21 CFR Part 11 compliance. This system delivers reliable, high-quality results that are critical for high-throughput screens.

LANCE® *Ultra*™ TR-FRET Cellular Kinase Detection Kits: provide sensitive and robust cell-based assays for high-throughput screening with faster time-to-results in a commercially-available TR-FRET assay and more biologically relevant interrogation of potential drug candidates.

VICTOR® Nivo™ Multimode Microplate Reader: with a compact footprint and light-weight design, this system offers high performance detection modes and easy-to-use software, enabling scientists to accelerate biochemical and cell-based assays for disease research and drug development. The VICTOR Nivo reader features a wide range of key detection modes, top and bottom reading for all modes and space for up to 32 filters to accommodate multiple users and applications.

PerkinElmer Signals™ Screening Software: offers out-of-the box support for the complete screening workflow from data acquisition to QC/normalization, results calculation, and hit stratification. PerkinElmer Signals Screening software supports users to create configurable data analytics workflows for a wide range of assay applications such as end-point assays, high content phenotypic profiling, surface plasmon resonance, and more.

PerkinElmer Signals™ Lead Discovery Software: quickly gain new insights into chemical and biomolecular research data with PerkinElmer Signals™ Lead Discovery software. PerkinElmer Signals Lead Discovery software features guided search and analysis workflows, and dynamic data visualizations for on-the-fly exploration. The platform is intuitive – letting researchers focus on their science, not on software so that researchers can ask smarter questions and get faster answers with guided workflows that are proven to work.

Genomics Workflow Solutions

chemagic™ Prime™ instrument: researchers specializing in biobanking, genetics and next generation sequencing can leverage the chemagic Prime technology to streamline and automate high quality DNA and RNA extraction for a wide range of human samples to support next generation sequencing, genotyping, polymerase chain reaction (PCR)-and other genomic related downstream assays. This sample processing solution offers automated nucleic acid isolation and assay setup by combining PerkinElmer's chemagic 360 instrument with the JANUS® automated liquid handling system.

NEXTprep-Mag™ Automated cfDNA Isolation Kit: offers a comprehensive, start-to-finish high-throughput solution that delivers the confidence of obtaining reliable, robust, and clean cfDNA yields from plasma/serum samples every time.

explorer™ G3 Integrated Workstations: provide innovative application-focused laboratory automation solutions that simplify microplate handling, liquid handling, and detection.

PRESENTATIONS & TUTORIALS:

PerkinElmer will deliver the following presentations and tutorials at SLAS:

An enhanced and integrated cell-based assay platform for measuring phosphorylated proteins for screening potential kinase inhibitors with time-resolved fluorescence
Monday, February 5, 2:00 – 2:45 p.m., Room #10

Extracting Informed Decisions from Complex Data
Monday, February 5, 3:00 – 5:00 p.m., ROOM # 8
Applying 'NewSQL' technologies to scientific data to enable self-guided data discovery and analysis
Monday, February 5, 4:30 – 5:00 p.m., ROOM #8

High-Content Screening goes 3D: New tools for effective 3D visualization and analysis
Tuesday, February 6, 10:30 – 10:50 a.m., Exhibition Theater

Combinatorial High Throughput Biomaterial Screening and Assessment for Tissue Engineering and Regenerative Medicine
Tuesday, February 6, 12:30 – 1:15 p.m., Room 11B

Clinical Implementation of Precision Oncology using Gene-Drug Association
Tuesday, February 6, 2:00 – 2:45 p.m., Room 11B

MORE:

For more information on PerkinElmer's presence at SLAS, please click here. Join the conversation about SLAS by following us on Twitter @PerkinElmer.

ABOUT PERKINELMER:

PerkinElmer, Inc. is a global leader committed to innovating for a healthier world. Our dedicated team of more than 11,000 employees worldwide is passionate about providing customers with an unmatched experience as they help solve critical issues especially impacting the diagnostics and discovery and analytical solutions markets. Our innovative detection, imaging, informatics, and service capabilities, combined with deep market knowledge and expertise, help customers gain earlier and more accurate insights to improve lives and the world around us. The Company reported revenue of approximately $2.1 billion in 2016, serves customers in more than 150 countries, and is a component of the S&P 500 Index. Additional information is available through 1-877-PKI-NYSE, or at www.perkinelmer.com.

Media Contact:
Alison Cizowski
+1 617-399-4914
perkinelmerdas@apcoworldwide.com