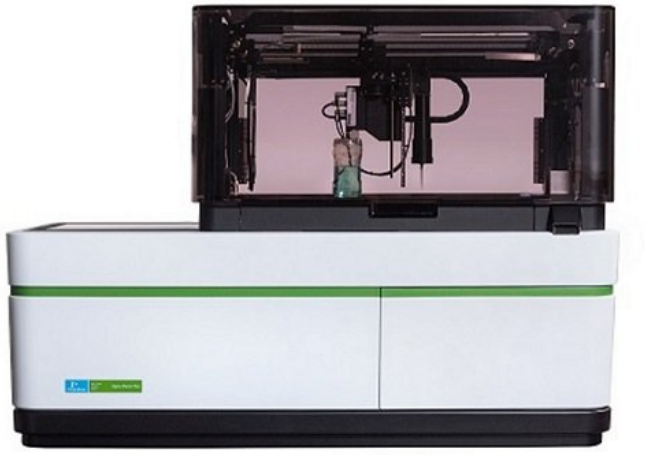
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ASIA EDITION

PerkinElmer unveils Advanced Drug Discovery and Disease Research Solutions

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Workstations and high-content screening systems automate the workflows to help researchers generate invaluable insights





PerkinElmer, Inc., a global leader committed to innovating for a healthier world, introduced new workstations and a high content screening system at SLAS2020 International Conference and Exhibition, being held on January 27–29, at Booth #929 at the San Diego Convention Center, San Diego, California. These technologies automate workflows so that disease research and drug discovery professionals can improve productivity, increase reproducibility, and garner key insights.

PerkinElmer highlights these new systems, along with several key offerings from its comprehensive portfolio of instruments and reagents at SLAS2020:

JANUS® G3 Blood iQ™ Workstation: for biobanking workflows, it offers front end reformatting of plasma and buffy coat layers from centrifuged blood tubes, enabling highly reproducible, downstream genetic analysis.

Sciclone® G3 NGSx HT Workstation: helps simplify the miniaturization of NGS library prep. Coupled with a new NEXTFLEX ® Rapid XP DNA-seq kit, this library preparation workflow is designed to enable researchers to increase their NGS throughput while decreasing their cost per reaction.

Opera Phenix® Plus High Content Screening System: for fast response analysis of physiologically relevant model systems, this enhancement to PerkinElmer's high content imaging platform adds fast frame rate image capture for assays such as cardiomyocyte beat rate monitoring. It also offers an optional liquid handling module to enable assays like Ca^{2+} flux, important to the study of neurological diseases such as Alzheimer's, Huntington's and Parkinson's.

Designed to drive more relevant testing earlier in the drug discovery process, the Opera Phenix Plus system can also be used with two cell cultures, primary cells, 3D organoids, spheroids and microtissues.

PerkinElmer is showcasing additional technologies that enable disease research and life sciences: **LabChip® GX Touch™ Nucleic Acid Analyzer**; **explorer™ G3 Integrated Workstations**; **MuviCyte™ Live-Cell Imaging Kit**; **VICTOR® Nivo™ Multimode Microplate Reader**; **EnVision® Multimode Plate Reader**; and **EnSight™ Multimode Plate Reader**.

SLAS attendees learn about PerkinElmer's industry-leading no-wash **assay technologies** including the Alpha, LANCE® *Ultra* ™ and HTRF® assays. The Alpha CETSA® assays combine PerkinElmer's Alpha and Pelago Biosciences' Cellular Thermal Shift assays (CETSA®), which enable the assessment of target engagement in cell-based assays and generate more physiologically-relevant results.

These products are for research use only. Not for use in diagnostic procedures.

"Advancing disease research and bringing new drugs to market quickly is often supported by innovative testing and analysis solutions that deliver fast, more accurate and reproducible results and novel insights," said Alan Fletcher, VP/GM, Life Sciences at PerkinElmer. "These new offerings will help scientists and technicians meet key needs across critical lab workflows as they leverage our robust portfolio, spanning from instruments and software, plate readers and integrated workstations, to assays, reagents and services."

PerkinElmer's experts delivered the following presentations at SLAS2020:

"The Importance of Sample Management in Precision Medicine: A High-Throughput Biobanking Workflow Solution", "An Automated Deep-Learning Workflow for Analyzing HCS Screens", "Technical and Workflow Considerations for cfDNA Applications", "Taking the Guesswork Out of NGS Library Prep Reaction Miniaturization"