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Accelerating CRISPR Research with Automated, High-content Screening (HCS)

Why just keep your finger on the pulse of genome editing when you could also be keeping your thumb on the HCS fast-forward button? New platforms are emerging that can make quick work of your genotypic and phenotypic screening workflows, from CRISPR targeting efficiency analysis and 3D cell culture, to integrated live-cell analysis. Learn how to research more and pipette less with automated, high-throughput phenotypic screening.



sufficient computing powe

NEW TO CRISPR?

CRISPR stands for clustered, regularly interspaced, short palindromic repeats, which were first discovered as an immune function in archaea. As a gene-editing technology, CRISPR relies on Cas proteins with nuclease activity to identify specific sequences in the genome, cut the cognate sequence, and introduce insertions or deletions. CRISPR has all-but-replaced traditional cloning techniques in laboratories across the globe.

CRISPR has already ignited the imaginations of a generation of scientists. Now, automation is enabling genome editing with higher throughput with less hands-on effort.



Imaging and detection systems, automation, informatics, and assays and reagents for high-throughput and phenotypic screening – together, they spell *discovery*.

Drug discovery is critical to our health and well-being. And to get therapies to market that much sooner, you need to accelerate your workflow, upstream and downstream. Our screening solutions are a crucial component in that effort: State-of-the art imaging and detection instruments, assay technologies and reagents, and versatile automation systems, working together to ensure consistent, accurate, physiologically relevant results - with one-of-a-kind analytics to wrest more meaning from your findings. The *next* big breakthrough? It begins with you.

To see how our screening solutions can lead to your next big breakthrough, visit www.perkinelmer.com/screeningsolutions



PerkinElmer is a global leader focused on improving human and environmental health. To accelerate the understanding of human health, we provide our customers with the knowledge, expertise and solutions to better diagnose, treat and prevent disease.

Our innovative and integrated detection, imaging, software, reagents and services solutions are accelerating discovery in core areas of research including epigenetics, genomics, cellular research, quantitative pathology, in vivo imaging, biotherapeutics and informatics.

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