



NEWS RELEASE

Bruker to Launch Beacon Discovery™ at AACR 2025, Expanding Access to Live Single-Cell Functional Analysis

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A Compact Benchtop Optofluidic System with Lower Cost of Ownership for Broader Research Accessibility

EMERYVILLE, Calif.--(BUSINESS WIRE)-- **Bruker Corporation** (Nasdaq: BRKR) today announced the launch of the **Beacon Discovery™ Optofluidic System** at the upcoming American Association for Cancer Research (AACR) Annual Meeting 2025. This new Beacon benchtop system offers an accessible entry point into live single-cell functional analysis.

Beacon Discovery – an accessible, compact system for live single-cell functional analysis

Building on Bruker's proprietary
Opto-Electrical Positioning (OEP)

technology and scalable OptoSelect™ microfluidic chips, **Beacon Discovery** complements the floor-standing premium Beacon® platforms. All Beacon systems precisely isolate, control, and analyze single cells within Nanopens using machine learning-driven automation and OEP. Researchers can conduct multi-parameter and temporal functional analysis over days or weeks, combining live-cell imaging with sequential assays. Cells can then be recovered for downstream transcriptomic and genomic analysis, enabling a unique linkage between functional insights and sequencing data from the same cell.

While the existing higher-throughput Beacon platforms focus on fully automated therapeutic antibody discovery and cell line development for pharma and CROs, the new single-chip **Beacon Discovery** prioritizes ease of use and flexibility with an intuitive user interface and customizable workflows for translational research in academic and biotech laboratories.

With a substantially reduced cost of ownership and lower running costs, **Beacon Discovery** lowers the barrier to entry for researchers and core labs exploring immuno-oncology, infectious diseases, autoimmune disorders, and immune profiling for regenerative medicine, antibody and T Cell Receptor (TCR) discovery, and cell therapy development.

One of the **Beacon Discovery** early-access users, Dr. Joseph Zenga, MD, Associate Professor and Division Chief at the Medical College of Wisconsin, highlighted the platform's impact: "Having used the Beacon platform for years, we have seen firsthand how it transforms TCR discovery for cancer immunotherapy. Its automated workflows and novel multi-parameter temporal analysis allow precise characterization of tumor antigen-specific T cells, accelerating the identification of potent therapeutic candidates from patient tumor-infiltrating lymphocytes (TILs). With the new **Beacon Discovery**, this powerful technology is now within reach for many more individual and core labs in academia and industry."

"**Beacon Discovery** is redefining live single-cell functional analysis, as demonstrated by numerous Beacon based **publications** in leading journals," said Vikram Devgan, PhD, Vice President of Global Marketing and Product Management, Bruker Cellular Analysis. "With a much lower entry price and enhanced ease of use, we are breaking down barriers and setting new standards in single-cell functional characterization. This platform enables deep biological insights across a broad range of applications, empowering R&D and translational researchers in pharma, biotech, and academia to accelerate novel B and T cell therapeutic development and biomarker research."

The platform is now open for pre-orders, with commercial shipments expected later in 2025. For an early preview of how this cutting-edge platform may reveal novel insights of your biology, Bruker is launching a Technology Access Program (TAP), allowing researchers to submit samples to Bruker Cellular Analysis for evaluation on the **Beacon Discovery** system.

Join us at AACR 2025, Booth #803, to experience **Beacon Discovery** firsthand. Don't miss our workshop, "Introducing Beacon Discovery: Bringing Live Single-Cell Multi-Parameter Functional Analysis to Every Lab," on April 27th at 3:30 PM CST. More details are available at **The Beacon® Discovery - Bruker Cellular Analysis**.

About Bruker Corporation – Leader of the Post-Genomic Era

Bruker is enabling scientists and engineers to make breakthrough post-genomic discoveries and develop new applications that improve the quality of human life. Bruker's high performance scientific instruments and high value analytical and diagnostic solutions enable scientists to explore life and materials at molecular, cellular, and microscopic levels. In close cooperation with our customers, Bruker is enabling innovation, improved productivity, and customer success in post-genomic life science molecular and cell biology research, in applied and biopharma applications, in microscopy and nanoanalysis, as well as in industrial and cleantech research, and next-gen

semiconductor metrology in support of AI. Bruker offers differentiated, high-value life science and diagnostics systems and solutions in preclinical imaging, clinical phenomics research, proteomics and multiomics, spatial and single-cell biology, functional structural and condensate biology, as well as in clinical microbiology and molecular diagnostics. For more information, please visit **www.bruker.com**.

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