Superresolution, Single-Molecule Fluorescence Microscope

The Nanoimager from Oxford NanoImaging (ONI) is a desktop-compatible, superresolution, single-molecule fluorescence microscope with localization precision reaching 20 nm. It supports various modes of operation: single-molecule, localization-based superresolution for quantitative cellular imaging; single-particle tracking in live cells; digital confocal microscopy; and structured illuminated microscopy (SIM) as well as single-molecule fluorescence resonance energy transfer (FRET) for measuring molecular interactions in the 2 nm–10 nm range. The Nanoimager is a cost-effective solution that operates on a standard laboratory bench, features whole-body heating for live experiments, and does not require an optical table or darkroom. It is a Class 1 laser product with unrivaled stability. Unlimited licenses to ONI's NimOS software allow seamless operation and rapid quantitative data analysis with intuitive presentation of results.

Oxford NanoImaging (ONI)
For info: +44-(0)-1865951820
www.oni.bio

High-Throughput, Label-Free Cell Interaction Platform

LUMICKS has released z-Movi, a platform that enables scientists to effectively screen and sort thousands of immune cells in parallel based on their strength of interaction to specific targets, such as tumor cells. Biological and pathological phenomena are heavily dependent on cells interacting with specific targets, including ligands, proteins, or other cells. The z-Movi technology is based on a simple principle: By using noninvasive forces, it is possible to precisely separate immune cells bound to other cells. Depending on how much force is needed to separate the interacting components, cell–cell interaction strength can be measured directly and quantitatively in thousands of cells simultaneously. Cells can be sorted afterward based on interaction strength and isolated for further processing. In this way, researchers can develop personalized therapies that are faster, cheaper, and have fewer side effects than current treatments.

LUMICKS
For info: +31-(0)-20-598-79-84
www.lumicks.com/cell

Hepatic Nonparenchymal Cells

Lonza has added hepatic stellate cells, Kupffer cells, and liver-derived endothelial cells to its liver-cells portfolio. These hepatic nonparenchymal cells give scientists the building blocks to create more physiologically relevant in vitro models, including cocultures and 3D cell cultures, for enhanced liver disease research. Hepatic nonparenchymal cells are involved in normal liver function, including transport, metabolism, and growth—however, they also play important roles in the immune response. These cells can also be involved in the formation of common liver diseases [hepatitis, nonalcoholic steatohepatitis (NASH), and cirrhosis]. By offering all four major liver-cell types (hepatocytes, stellate cells, Kupffer cells, and liver-derived endothelial cells), Lonza offers a one-stop shop for scientists looking to source human liver cells for their drug discovery research.

Lonza
For info: 800-638-8174
www.lonza.com

Refractive Index Detector

The Differential Refractive Index (DRI) Detector from Testa Analytical Solutions is a next-generation instrument for challenging gel permeation chromatography/size-exclusion chromatography (GPC/SEC) applications. Its high sensitivity makes it the perfect companion for characterization of natural and synthetic polymers as well as protein investigations. The instrument works at the same wavelength as multi-angle light scattering (MALS) and static light scattering (SLS) detectors, enabling determination of both absolute concentration and total mass balance. It operates from room temperature up to 80°C. Designed to operate in both horizontal and vertical orientations, the compact detector has the versatility to fit your available benchspace. While developed for use with GPC/SEC multidetector systems, the DRI Detector also provides unbeatable performance in more classical HPLC applications, such as detection of sugars, and is available optimized for low flow rates down to 300 µL/min.

Testa Analytical Solutions
For info: +49-30-864-24076
www.testa-analytical.com

Column Series for Biotherapeutics

bioZen from Phenomenex is a series of liquid chromatography (LC) solutions for bioseparations in pharmaceutical, biopharmaceutical, and academic research. The series encompasses both proven and entirely new media spanning two particle platforms—core-shell and thermally modified fully porous. The initial bioZen product line features seven chemistries for UHPLC and HPLC characterization of biotherapeutics, such as monoclonal antibodies, antibody–drug conjugates, and biosimilars. The offering includes specific LC chemistries for analysis of aggregates and total monoclonal antibodies, intact mass and fragments, peptide mapping and quantitation, and glycan mapping. All bioZen media, particle sizes, and phases are available in Phenomenex's new, biocompatible titanium hardware, which minimizes secondary reactions, carryover, and other recovery issues to provide better overall reproducibility than stainless-steel hardware. It also reduces the time typically spent on column priming and does not interfere with protein or peptide integrity.

Phenomenex
For info: 310-212-0555
www.phenomenex.com

Evaporator for Kilo-Scale Preparative Chromatography

Configured with a 5-L 316 stainless-steel evaporation vessel, the Rocket 4D Synergy from Genevac offers productive automated removal of solvent for labs running kilo-scale preparative chromatography equipment. Such labs have traditionally relied upon several rotary evaporators to remove the large volumes of solvent resulting from sample fractions. This time-consuming manual process requires a dedicated operator to top-up dry ice in cold traps, feed the systems with more product, and watch them continually. With the Rocket 4D Synergy, you simply load your sample, select a method, press start, and walk away—the system will do the rest. Compact in size, the instrument allows you to dry or concentrate your samples with complete confidence, as it uses proprietary vacuum technology to suppress solvent bumping and foaming—problems associated with sample loss when using large-scale rotary evaporators.

Genevac
For info: 845-255-5000
www.spscientific.com/rocket4dsynergy

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/about/new-products-section for more information.

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Science **362** (6418), 1070.
DOI: 10.1126/science.362.6418.1070