new products

**35-mm Imaging Dish**
ibidi offers a 35-mm imaging dish with a glass bottom that is suitable for high-quality imaging of living and fixed cells. Since the bottom is made from a #1.5H coverslip (170 µm ± 5 µm), it can be used for uncompromised high-resolution imaging with living cells, as well as immunofluorescence microscopy (e.g., FRET, FRAP, FLIM, and TIRF) with fixed samples.

For info: 844-276-6363
www.ibidi.com

**Primary Human Airway Cells**
MatTek's Normal Human Bronchial Epithelial Cells (NHBE) provide a serum-free culture system to study cell–cell and cell–matrix interactions, drug effects, gene regulation, cell differentiation, tissue development, wound healing, inflammation, and toxic effects to the bronchial epithelium. They are available from nondiseased donors as well as donors with well-characterized smoking history or diseases such as asthma and COPD. Donor-matched bronchial fibroblasts are available upon request. NHBE cells exhibit cobblestone morphology in monolayer culture and are characterized by Cytokeratin 14 expression. They are guaranteed to provide a minimum of 15 population doublings and ≥75% viability upon thaw, when handled according to MatTek’s NHBE protocol. All cells are negative for mycoplasma, bacteria, yeast, and fungi. HIV-1, hepatitis B, and hepatitis C are not detected by PCR for all donors and cell lots. This product is for research use only and is not for use in animals, humans, or diagnostic purposes.

For info: 508-881-6771
www.mattek.com/products/bronchial-epithelial-cells

**qPCR and RT-qPCR Products**
Fluorescence-based quantitative real-time PCR (qPCR) is the gold standard for the detection and quantification of nucleic acids, thanks to its sensitivity and specificity. Luna products from New England Biolabs (NEB) are optimized for qPCR or reverse transcription qPCR (RT-qPCR), and are available for either intercalating dye or probe-based detection methods. Each Hot Start Taq-based Luna qPCR master mix has been formulated with a unique passive reference dye that is compatible across numerous instrument platforms, including those requiring a ROX reference signal—no additional components are required to ensure machine compatibility. The mixes also contain dUTP (deoxyuridine triphosphate), enabling carryover prevention when reactions are treated with NEB’s Antarctic Thermolabile UDG (uracil-DNA glycosylase). A blue visible dye assists in tracking the reagents when pipetting into clear, multwell PCR plates.

For info: 800-632-7440
www.neb.com

**FISH Probes**
Oxford Gene Technology (OGT) has expanded its range of Cytocell Aquarius fluorescence in situ hybridization (FISH) probes for pathology with three new probes: FUS Breakapart and FOXO1 Breakapart—both carrying the CE-IVD (European Conformity-in vitro diagnostic) label—and TFE3 Breakapart. Recurrent rearrangements involving the FUS gene with a number of different partner genes have been reported in various types of neoplastic disease, notably soft-tissue sarcomas and acute myeloid leukemia. Translocations involving the FOXO1 gene are associated with around 80% of alveolar rhabdomyosarcoma cases. Thanks to their excellent specificity, Cytocell Aquarius FISH probes deliver high-intensity signals with minimal background fluorescence. Probes are supplied as ready-to-use, premixed solutions to minimize the risks of experimental errors, delivering confidence in results.

For info: 914-467-5285
www.ogt.com

**Flow Cytometer**
The BD FACSCelesta flow cytometer is designed to make multicolor flow cytometry more accessible. Parallel advances in optical and reagent technology are pairing multilaser, multidector instruments with bright new dyes, thereby enabling increasingly deep and powerful insights in cell analysis. The BD FACSCelesta platform offers multiple configurations to simplify experimental design and analysis for experienced researchers as well as those new to flow cytometry. Available in four configurations, the system allows you to gain access to the advanced reagent technology of the BD Horizon Brilliant dyes, which can help you detect low-density antigens and rare populations. It has been designed to fit on the benchtop, and leverages the proven BD FACSDiva software to streamline workflow—from system setup to data acquisition to data analysis.

For info: 877-232-8995
www.bdbiosciences.com

**Dual-Wavelength Laser Engine**
Now with new 488/647-nm wavelength pairing, iFLEX-Gemini represents a compact replacement for bulky argon–krypton gas lasers in superresolution microscopy and cancer research (e.g., blood analysis, DNA sequencing, flow cytometry, and optogenetics). Moreover, with its solid-state design, it is one-tenth the size of equivalent gas lasers. While gas lasers require external modulators for fast on/off switching, iFLEX-Gemini can be modulated directly, thus reducing cost and complexity. Various wavelength pairs supplement this system to support a wide range of popular applications. Standard wavelength pairs include 488/515, 458/515, 445/515, 473/515, 405/488, 488/640, 405/640, and now 488/647 nm. Custom combinations are available upon request. Measuring 130 mm L x 90 mm W x 38 mm H, iFLEX-Gemini is small and portable, yet delivers highly stable performance. Its robust optomechanical design eliminates the need for laser realignment, and can be easily integrated into instruments and used in a laboratory. iFLEX-Gemini also offers design flexibility, since each wavelength can be individually adjusted for output power and modulation repetition rate.

For info: 800-775-6786
www.excellitas.com

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