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The BD Accuri™ Cytometer is a personal flow cytometer that puts flow cytometry within reach. It gives you 4-color cell analysis in an affordable, transportable, and easy-to-use format.

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For more information about how you can more easily access the power of flow cytometry in your lab, visit bdbiosciences.com/go/accuri.

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Now you can resolve rare or dim cell populations with BD Horizon™ Brilliant Violet™ polymer conjugates from BD Biosciences.

Developed from pioneering polymer dye technology acquired from Sirigen Ltd., BD Horizon Brilliant Violet dyes are brighter than conventional dyes. Improved brightness enables you to identify cell populations with lower receptor density than was previously possible, resolving cell populations previously obscured.

The complete portfolio of BD conjugated antibodies can be used to explore cellular features and characterize cells through surface, intracellular, or secreted markers. To ensure you can use BD reagents across your entire multicolor panel, our portfolio contains a broad selection of fluorochrome-conjugated antibodies.

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Do you have a question with the potential to change the world?

Do you have an idea for a research question that requires the attention of some of the world’s best minds – a question whose ambitious scope and depth will spark transformative inquiry? This is your opportunity to create an interdisciplinary global research network.

The Canadian Institute for Advanced Research invites proposals from individuals or small teams to establish a research program that addresses a complex, fundamental question of importance to humanity. Areas of inquiry can draw on disciplinary expertise anywhere across the natural sciences, health and biological sciences, social sciences and humanities. CIFAR will support successful candidates in sustaining a collaborative network for a five-year renewable term.

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The annual Eppendorf & Science Prize for Neurobiology, an international award, honors young scientists for their outstanding contributions to neurobiological research. The winner and finalists are selected by a committee of independent scientists, chaired by Science's Senior Editor, Dr. Peter Stern. To be eligible, you must be 35 years of age or younger.

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Cellular imaging remains one of the most important techniques in life science research based in part on the notion that “seeing is believing.” For a variety of practical reasons including types of probes available and access of probes to their intracellular targets, imaging is currently most often performed on specimens that have been fixed and labeled. Although technically more challenging, live cell imaging enables researchers to study cellular events and processes that cannot be visualized in fixed specimens and to follow short- and long-term dynamic processes to gain deeper insights into the complex mechanisms of cell biology.

During this webinar, viewers will:

• Learn from our speakers the benefits of imaging live cells using techniques such as high resolution microscopy, superresolution microscopy, and high-content analysis

• Receive practical advice on how to overcome some of the technical challenges in live cell imaging

• Obtain guidance on how they can modify their imaging practices to obtain superior results

• Have their questions answered by our respected thought leaders.

Wednesday, May 22, 2013
12 noon Eastern, 9 a.m. Pacific,
5 p.m. UK, 6 p.m. Central Europe

SPEAKERS:

Lynne Turnbull, Ph.D.
University of Technology
Sydney, Australia

Edward M. Campbell, Ph.D.
Loyola University
Chicago, IL

Nick Thomas, Ph.D.
GE Healthcare
Cardiff, Wales
PCR INSTRUMENT

The new Mastercycler nexus X1 is the latest addition to the Mastercycler range of polymerase chain reaction (PCR) instruments. It provides researchers with increased heating and cooling rates by uniting the innovative software found in the Mastercycler nexus with a fast 96-well block. All this is achieved while maintaining low power consumption and low noise emission levels (≤ 40 dB[a]), making the Mastercycler nexus X1 suitable for work within busy life science laboratories. A heating rate of 5°C/s means run times using the Mastercycler nexus X1 are very short, allowing several users to work on it during the course of a day. Up to three units can be combined for maximum throughput, and a booking schedule integrated into the software allows easy allocation of time to fit researchers’ schedules. When in use, the Mastercycler may be connected to a computer network, supplying e-mail status updates on the progress of the PCR run.

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For info: 800-645-3050 | www.eppendorfn.com

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The MethylEdge Bisulfite Conversion System offers an efficient method for rapidly performing bisulfite conversion and DNA clean-up within two hours, while maintaining DNA integrity to provide more intact, converted DNA for a variety of sensitive applications. MethylEdge requires only small amounts of input genomic DNA (100 pg to 2 µg). Using optimized conversion reagents, clean-up, and recovery methods, the system converts DNA at 90% efficiency with minimal fragmentation. The resulting DNA is suitable for use in downstream applications such as polymerase chain reaction, array, or sequencing assays. The kit includes all reagents necessary to perform bisulfite conversion reactions. All MethylEdge reagents can be stored at room temperature and require minimal upfront preparation. The Promega MethylEdge Bisulfite Conversion System complements Promega nucleic acid purification kits for a wide variety of sample types and throughput levels, quantitation chemistries for both pre- and post-conversion, and Promega amplification technologies for detection.

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DNA LIBRARY QUANTIFICATION KIT

The new ddPCR Library Quantification Kit for Illumina TruSeq sample preparation kits enables QX100 Droplet Digital PCR system users to precisely and directly measure amplifiable library concentrations for next generation sequencing. The TruSeq sample preparation method is the technology behind Illumina’s MiSeq and HiSeq next generation sequencing platforms. Using the ddPCR Library Quantification Kit to quantify TruSeq DNA libraries maximizes the number of useable reads, enables consistent loading, and optimizes the utilization of every sequencing run. The resulting data provides additional measures of library quality not provided by other methods, including the percentage of nonamplifiable species such as adapter dimers as well as the size range of library inserts.

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PCR THERMAL CYCLER

The FlexCycler² is a modern thermal cycler which combines exceptional design with reliable technology in one system. Using the Quick-X-Change block exchange system, block modules can be exchanged within seconds, allowing the instrument to flexibly adapt to changing requirements. In total, six different mono- and twin-block modules are available, all of which can replace each other. The two independent blocks of the twin-block modules allow two different polymerase chain reaction (PCR) programs to be run simultaneously, thereby helping users avoid bottlenecks. The 96-well block module and the 48-well twin-block module, for optimization of new primer pairs, are also an available option with gradient function. The FlexCycler² provides state-of-the-art heating and cooling rates, and excellent temperature uniformity enables reproducible conditions in all positions of the sample blocks. The user-friendly software, in combination with extensive additional software options, makes the FlexCycler² the perfect system for challenging PCR applications.

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DNA REFERENCE STANDARD

The new Quantitative Multiplex DNA Reference Standard is the first of its kind and is intended for researchers assessing multiple biomarkers in a single assay using platforms such as next generation sequencing. As multiplexing assays and large tumor profiling projects become more common, standardization will be essential to enable confidence in experimental results. To date, a significant challenge has been access to reliable, renewable external reference standards. The novel Quantitative Multiplex DNA Reference Standard directly addresses this need by enabling researchers to quantify a range of detection thresholds for 11 cancer relevant mutations. This is accomplished across complex samples in a single assay in the form of renewable material originating from precisely engineered cell lines.

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During this webinar, viewers will:

• Learn about post-translational modifications and their role in cellular signaling

• Discover how antibody-based proteomics approaches can be applied to identify, study, and characterize known and novel modifications

• Hear specific examples of how these approaches are being applied to the dissection of cellular signaling pathways, target identification, validation, and biomarker discovery by industry and academic experts
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