A Chance to Expand Your Creative Possibilities

At IBS in South Korea, many excellent scientists have gathered to further expand the potential of science and technology.

IBS invites you to join the challenge of boosting basic science.

IBS (Institute for Basic Science) is a government-funded research institute, established with the sole purpose of driving forward the development of basic science in Korea. We have launched 21 research centers; each headed by an internationally renowned scientist with an operational budget of up to 10 million USD a year. IBS will be comprised of a total of 50 research centers in all fields of basic science, including mathematics, physics, chemistry, life science, earth science and interdisciplinary science.

Our strategy is simple: establish an excellent research institute for basic science in Korea by recruiting exceptional scientists worldwide and fully supporting them in whichever research areas they wish to pursue for the long-term. IBS ensures that we select the best possible people for this challenge with our peer-review evaluation system. You are cordially invited to join IBS to boost basic science to the next level.

IBS looks forward to shaping the future of basic science with you. Visit our website for detailed recruitment information and register yourself with the IBS Talent Pool DB for a future career with IBS.

The meeting will highlight the information transformation happening in science and technology brought about by recent advances in organizing, visualizing, and analyzing data.

Register and Reserve a Hotel Now

Register and book your housing to use funds from fiscal year 2014. Reduced rates are available until 22 January 2015.

Online registration and scientific program:

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Science Careers is excited to bring you an easy, efficient and powerful way to connect with employers from all over... all in one place. This virtual event allows you to queue up to visit with representatives from any companies you are interested in during the event hours.

**Features and Benefits of Attending this Event**

- No travel required—you can login from anywhere
- Queues tell you how many people are in line ahead of you and how long you will be waiting so you can better manage your time
- Login before the event to learn more about participating employers
- Employers can see your resume while you are talking to them
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Superresolution Microscopy
LSM 880 with Airscan is a new confocal laser scanning microscope which offers high sensitivity, enhanced resolution in x, y, and z, and high image-acquisition speed in one system. Users achieve a 1.7x higher resolution in all spatial dimensions, 140 nm laterally and 400 nm axially. The high sensitivity leads to better image quality and increased speed. A classic confocal microscope illuminates one spot on the sample to detect the emitted fluorescence signal. Out-of-focus emission light is rejected at a pinhole, the size of which determines how much of the airy disk reaches the detector. Users can increase the resolution by making the pinhole smaller, but the signal-to-noise ratio drops significantly, since less valuable emission light is passing through. LSM 880 lets the user take full advantage of large fields of view and the highest speed of any linear scanning confocal microscope at an unsurpassed image quality.

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Superresolution Microscopy Software
The Olympus FV-OSR software module enables users of the FluoView FV1200 easy access to what was previously the domain of only specialized microscopy systems. The extra detail offered by superresolution technology facilitates researchers in revealing the most subtle mechanisms at work within cells or tissue. Three-dimensional confocal laser scanning microscopy with the FluoView FV1200 achieves a vastly improved lateral and axial resolution compared to standard widefield, but is still limited by the diffraction limit of light. In certain settings images can therefore suffer from poor contrast. This is where superresolution microscopy comes into play, breaking the diffraction limit of light and enhancing cell and tissue imaging studies. Drawing from the latest Olympus optical and digital technologies, the FluoView FV1200 can now be transformed into a system capable of reaching a resolution of up to 120 nm, with simultaneous multicolor capture. The proprietary technology of the FV-OSR software controls specific hardware settings and advanced signal processing.

Olympus
For info: +49-402-3773-5913
www.olympus-europa.com/microscopy

Optical Imaging System
The Solaris quantitative optical molecular imaging system is a preclinical solution for use in small and large animal studies will help to advance drug discovery and translational research to develop and validate molecular-guided surgical research protocols. The Solaris system, when combined with PerkinElmer’s suite of fluorescence molecular imaging probes, can bridge molecular imaging research techniques to support potential clinical outcomes. By distinguishing healthy versus diseased tissue in real-time, researchers can more accurately and completely map tumors. The Solaris system is designed for ambient lighting conditions found in preclinical surgical research suites and can dynamically use a broad and versatile range of fluorescent probes, offering flexibility for translational researchers when targeting diseases. Its research applications include drug efficacy, drug safety, measurement of real-time biological therapeutic responses, and advanced molecular-guided surgery applications such as surgical tumor margin determination in live animal models.

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www.perkinelmer.com

Deep-Cooled CCD Camera
The new Syncrity back-illuminated, deep-cooled CCD camera comes with an NIR-enhanced 2048 x 70 sensor. This CCD sensor is designed for companies requiring an affordable OEM camera for VIS-NIR spectroscopy applications. This new Syncrity camera joins the existing Syncrity with front illuminated 1024 x 256 CCD sensor for UV-VIS-NIR applications. Its high-resolution 14 μm pixel size makes it ideal for Raman instrumentation. Syncrity NIR offers ultralow etalonning and more than 40% Quantum Efficiency at 1,000 nm. Peak QE of 84% at 700 nm, and 20% at 1,050 nm means the Syncrity back-illuminated NIR offers a broad response. It is also available in a back-illuminated UV-VIS optimized configuration. Its lifetime vacuum warranty and compact size make it ideal for OEM integration, particularly in Raman microscopes, and its flexible design allows the OEM-dedicated Horiba team to quickly adapt the camera for industrial applications.

Inversbit Scientific
For info: 732-494-8660
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Inverted Microscope
The Leica DMi8 inverted microscope with built-in modularity is designed to grow and adapt to ever-changing research needs. With this new concept, life scientists can configure an inverted microscope now and upgrade it in the future for applications ranging from basic imaging to advanced fluorescence microscopy. The Leica DMi8 is equipped with an additional incident illumination port, the Infinity Port, which facilitates the integration of additional light sources and laser systems for advanced applications. The closed-loop focus drive with an accuracy of 20 nm for the 12 mm travel range enables researchers to investigate large specimens with high precision. In combination with Leica Microsystems’ imaging software the Leica DMi8 is an optimal solution for live-cell microscopy. The Leica DMi8’s Infinity Port is the core of the system and enables access to the infinite light path. It integrates light sources and lasers that are necessary for FRAP, photo-switching, ablation, and many state-of-the-art microscopy techniques.

Leica Microsystems
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PCR-based mutation screening in lacZ (NEB), lacI (Agilen) or rpsL (Life).

Due to the very low frequency of misincorporation events being measured, the error rate of high-fidelity enzymes like Q5 is difficult to measure in a statistically significant manner. Although measurements from assays done side-by-side with Taq yield Q5 fidelity values from 100-200X Tag, we report >100X Taq as a conservative value.