BRINGING LIGHT TO THE LIFE SCIENCES







Wednesday, December 23, 2015

Spatial light interference microscopy (SLIM) might provide a quantitative way to diagnose

or malignant cells. The results agreed 88 and 87 percent of the time with the findings of

two histopathologists who assessed the same samples using hematoxylin and eosin stains.

breast cancer. Researchers at the University of Illinois recently used data-based SLIM assessment to determine whether breast tissue biopsies from 400 patients contained benign

An Illuminated State of Mind



In a small laboratory with very little equipment, psychiatrist, neuroscientist and Professor Karl Deisseroth began a high-risk project to render individual neurons photosensitive. Despite facing a great deal of skepticism from his peers, he remained convinced that if adjustments could be made to specific neurons, then scientists would finally have the tools to decode one of the most complex biological systems known to man — the human

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Spectroscopy Can Head Off Food Safety Crises

Automated Biopsy Assessment Possible with SLIM



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Spectroscopy is a safe, nondestructive analytical method that can improve the quality control and assurance at production facilities by providing real-time, accurate measurement of the products at various steps to prevent larger quality issues.

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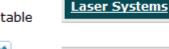
Light Moves Mirror for 3D Sensing

A laser system that includes a mirror moved by the force of light could enable the miniaturization of 3D sensors for driverless cars and bioimaging. The mirror, an ultrathin high-contrast grating, alters the frequency of the laser beam as it moves, making it suitable for lidar and optical coherence tomography (OCT).

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Lumencor, Inc. The SPECTRA X light engine from Lumencor is the ultimate integrated solid-state excitation source for fluorescence microscopy.

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Scanning Confocal Microscope

Bruker Nano Surfaces Offering quantitative live-cell imaging, Bruker Corp. has announced the Opterra II multipoint scanning confocal microscope.

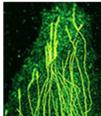
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Dual Inverted SPIM

Applied Scientific Instrumentation, Inc. ASI has developed a new form of light sheet microscopy with our collaborators in the scientific community.

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