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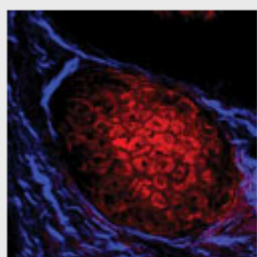
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BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

Wednesday, March 26, 2014

Ultrafast Laser Systems are Stepping Up to Meet Industry Needs



These devices' delivery of high peak power without thermal damage may displace current technologies and open up new ones. Improvements in ultrafast lasers support superior surgical precision, take imaging deeper and help to unlock the secrets of the brain.

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Photoacoustics Holds Promise for Cancer

This noninvasive modality's ability to map cellular metabolism could impact the future of cancer diagnosis and treatment. This is the first of a two-part series that will look more closely at the work of the dedicated researchers making some of the most exciting recent (and future) advances in photoacoustics.

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Making Strides in Fourier Transform Spectroscopy

Advances in technology are broadening FTIR's reach into applications such as pharmaceuticals and remote sensing. Fourier transform spectroscopy (FTS) allows researchers to acquire spectra of solids, liquids and gases across a wide spectral range. The field of FTS is broadening as new techniques appear and commercial instrumentation becomes more sophisticated.

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Building the Perfect Fiber Optic Probe

Probes for clinical use must be user-friendly, provide reproducible results, and adhere to professional standards. Researchers and clinicians use fiber optic-based probes for a wide variety of applications – which means the probes must exhibit varying amounts of complexity.

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Handheld Optical Device to Catch Early Signs of Retinal Disease

A handheld optical device that combines ultrahigh-speed 3-D imaging with a microelectromechanical systems (MEMS) scanning mirror could make early detection of certain eye diseases as easy as scanning a bar code.

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Biophotonics Products



06-01 Series Expansion

Cobolt AB
Cobolt AB announces higher powers of its Cobolt DPL™ lasers, ultra-compact SLM DPSS lasers at 532nm and 561nm, on the 06-01 Series platform.

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Microscopy Illumination

Andor Technology plc, Corporate Headquarters
Andor Technology has introduced Borealis illumination technology for multifocal confocal microscopy for scientific imaging applications.

[More info >>](#)



Stage Inserts

Applied Scientific Instrumentation, Inc.
Applied Scientific Instrumentation's I-3033 and I-3078 stage inserts fit the standard 110 × 160-mm openings found in most automated X-Y stages.

[More info >>](#)



Electro-Optic Modulators

New Focus
New Focus, a Newport Corp. brand, has added blue-coated phase modulators covering the 360- to 500-nm-wavelength range to its line of electro-optic modulators.

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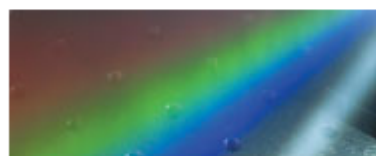
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WEBINAR

Light Advances in Biomedicine

Wednesday, April 9, 2014, 1 – 2 PM EDT

FREE WEBINAR



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Dr. Robert Alfano

Photonics Media will host Dr. Robert R. Alfano, distinguished professor of science and engineering at The City College of the City University of New York, who will present major advances in optical biopsy and imaging spectroscopy. Alfano will discuss the key fingerprints to detect aggressive cancer cells; two new NIR spectral windows for imaging with less scattering of light in tissue; the use of upper singlet S2 for dyes to increase imaging depth using two-photon techniques; the use of spatial frequency spectra to detect structure in cancerous tissues and the brain; and, most of all, the use of supercontinuum – the ultimate white light – in biomedicine applications.

Industry Events

SPIE Translational Biophotonics 2014 - May 19 - 20, 2014 · Rice University, Houston, TX



Primary topics include diagnostic imaging and detection with applications in cancer diagnostics, cardiovascular imaging, infectious disease, new techniques in microscopy and other emerging technique, analytical systems, MD perspectives, industry perspectives.

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