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BRINGING LIGHT TO THE LIFE SCIENCES®

Monthly newsletter focusing on how light-based technologies are being used in the life sciences. Includes news, features

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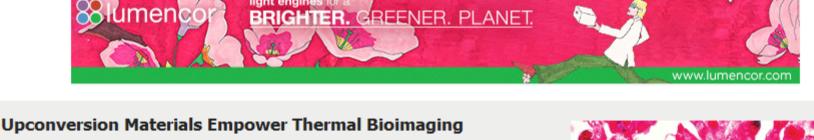






and product developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more. Manage your Photonics Media membership at Photonics.com/subscribe.

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encompasses many different methods, such as electron microscopy, xray tomography, and magnetic resonance imaging, which are becoming increasingly popular. However, optical microscopy has advantages over these other methods: It is versatile and relatively inexpensive. For these reasons, fluorescence microscopy remains an essential tool for bioimaging in research laboratories. Read Article (A) (II)

Bioimaging is a fundamental technique for research in the life sciences, and it is used routinely in the medical industry. The procedure itself











and large-scale medical devices. Getting these products to market

faster and more efficiently can save millions in revenue. However, production today is often bogged down by complex manufacturing processes with numerous iterative steps that contribute to long development cycles and process inefficiencies. Read Article

custom pieces, including prosthetics, implants, personalized medicine,



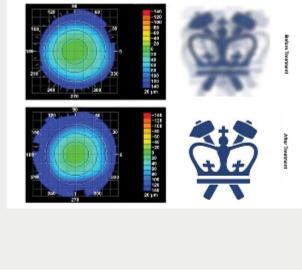






optogenetics, ultrashort-pulse lasers — also informally known as ultrafast lasers — have become essential tools in biomedical discovery.

From nonsurgical vision correction to multiphoton imaging to neuronal



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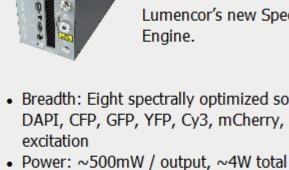






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Engine.

Lumencor's new Spectra III Light

 Breadth: Eight spectrally optimized sources for DAPI, CFP, GFP, YFP, Cy3, mCherry, Cy5, Cy7

 Stability: Exceptional reproducibility Ideal for quantitation Ease of use: Small, cool, pre-aligned, Mercury-Free Applications: Fluorescence microscopy among

Control: Exceptional power and wavelength stability

- others, OEM customization upon request
- Cobolt Skyra™: The New Multiline Laser

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into spherical samples

available for use with other systems

Photonics, proudly market releases the Cobolt Skyra[™], a revolutionary

Cobolt AB, a part of HÜBNER

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permanently aligned in a single compact package (70 x 134 x 38 mm) and requiring no external electronics, the

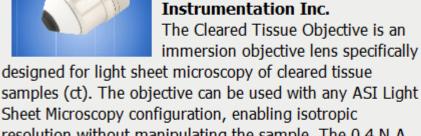
sponsors CLEARED TISSUE OBJECTIVE · Immersion objective lens specially designed for light sheet microscopy of cleared tissue sample · Used with any ASI Light Sheet Microscopy configurations · Enables isotropic sub-micron resolution without manipulating the sample

· Offers sub-micron resolution in X, Y, and Z when used in multi-view system

Permits imaging more than 5 mm deep into flat samples, or up to 12 mm.

· Nikon style form factor M25 threads, 40 mm OD, 61.6 mm parfocal length,

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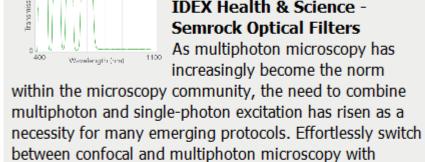


The Cleared Tissue Objective is an immersion objective lens specifically

Cleared Tissue Objective

Applied Scientific

resolution without manipulating the sample. The 0.4 N.A. multi-immersion objective is designed for dipping media RI ranging from 1.33 to 1.56, >1 mm field of view,... Request Info Visit Website



BIOMEDevice

Semrock Optical Filters As multiphoton microscopy has increasingly become the norm

IDEX Health & Science -

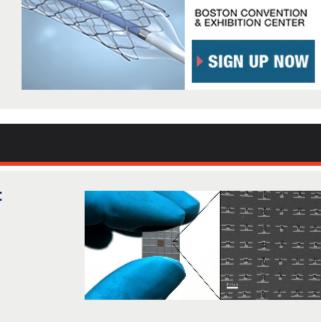
1P/2P Super-Res TIRF Dichroic

Semrock's newest 1P/2P super-resolution/... Request Info Visit Website Don't Miss New England's Premier Medtech Event

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Melanoma Blood Vessel Changes Detected with OCT Imaging An international team of researchers has proven that dynamic optical coherence tomography (D-OCT) imaging of melanoma reveals changes to the blood vessels that correlate with the depth of its invasion, which could lead to a faster method of rapidly assessing the severity of a melanoma.

2D Circuits On Smooth Surfaces Could Aid Next-Gen Biosensors

Atom-flat sensors, made from 2D materials, could be used to monitor performance without adding weight or hindering signal flow if they could be seamlessly integrated onto surfaces with different geometries where detection for near-field signal is desired.

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Webinars

wafer.



Resolved Spectroscopy



Tue, May 14, 2019 1:00 PM - 2:00 PM EDT

methods for evaluating skin injury using spectroscopic measurements based on coherence imaging. These methods were developed by Wax and his group at the Biomedical Interferometry, Optics and

This webinar, presented by Adam Wax, Ph.D., will introduce new

Spectroscopy (BIOS) lab at Duke University. Wax will discuss spectroscopic OCT (SOCT), an extension of OCT technology for analyzing structural as well as spectroscopic information. He will

address SOCT's potential in the area of cancer detection. Coming in May. Features

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine BioPhotonics. Please submit an informal 100-word abstract to Senior Editor Justine Murphy at Justine.Murphy@photonics.com or use our online submission form www.photonics.com/submitfeature.aspx.

present his lab's application of SOCT for burn injuries and also

Optics and Deep Learning, Computational Imaging, Absorption Spectroscopy, Biomedical Research

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