

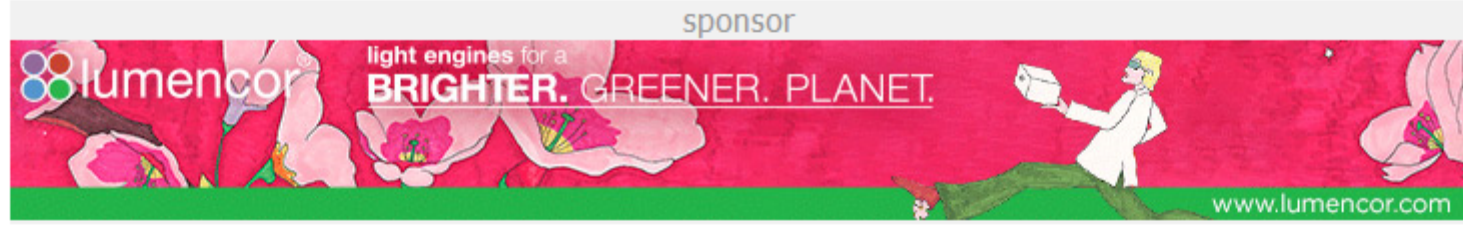
BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES®

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Monthly newsletter focusing on how light-based technologies are being used in the life sciences. Includes news, features and product developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more. Manage your Photonics Media membership at Photonics.com/subscribe.



Prism Award Winners Take Center Stage

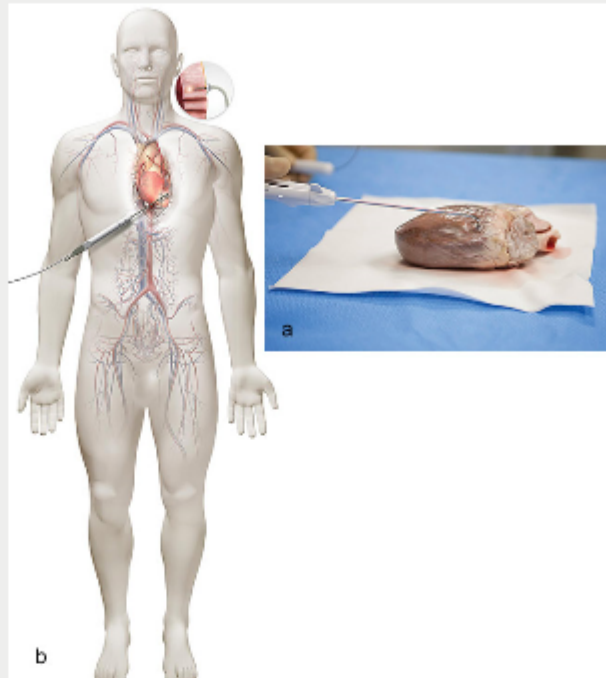
Amid the bustle of Photonics West, some of the industry's top innovators gathered on Feb. 6 to honor the best products and advancements at the "Oscars of the photonics industry" — the Prism Awards for Photonics Innovation. Thirty companies vied for top prizes in areas ranging from detectors and sensors to vision technology, but only 10 were recognized at center stage. Jointly sponsored by SPIE and Photonics Media, the annual event recognizes the best of the best from all fields of the industry.



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The Growing Role of Lasers in Treatments for Better Blood Flow

For some cardiovascular patients, laser-based procedures have become the best, and perhaps only, option to relieve pain and restore function associated with many diseases of the heart, arteries, and veins. New wavelengths, more rugged setups, lower-cost systems, and other advancements are being combined with minimally invasive techniques. Such combinations often promise improved patient outcomes and lower overall cost of therapy.



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ASLMS 2019 Promotes Medical Excellence

Lasers, laser systems, and related applications will take the spotlight March 27-31 at the Colorado Convention Center in Denver during the conference of the American Society for Laser Medicine and Surgery (ASLMS). Focuses include nursing, patient experience, imaging, photobiomodulation, and laser-assisted drug delivery. This 39th annual event brings together scientists, clinicians, residents, and students, as well as health care professionals and other industry experts to learn, share, investigate, and develop ideas for clinical applications that are changing the world of patient care.



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Featured Products

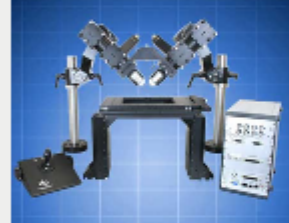


The Next Generation Comes to Light

Lumencor Inc.
Lumencor's new Spectra III Light Engine.

- Breadth: Eight spectrally optimized sources for DAPI, CFP, GFP, YFP, Cy3, mCherry, Cy5, Cy7 excitation
- Power: ~500mW / output, ~4W total
- Control: Exceptional power and wavelength stability
- Stability: Exceptional reproducibility
- Ideal for quantitation
- Ease of use: Small, cool, pre-aligned, Mercury-Free
- Applications: Fluorescence microscopy among others, OEM customization upon request

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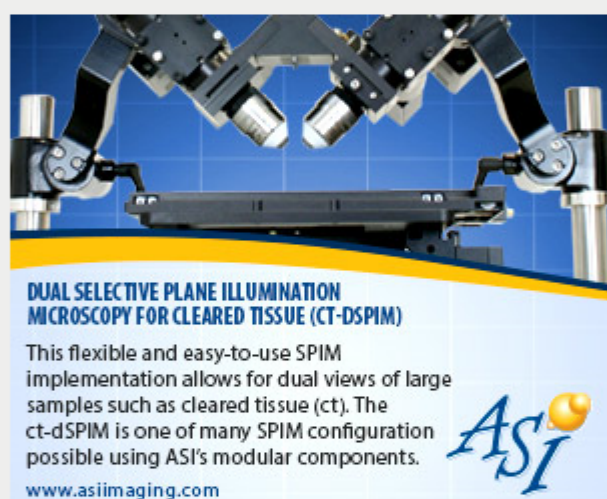


Dual Light Sheet Microscopy

Applied Scientific Instrumentation Inc.
ASI's Dual Selective Plane Illumination Microscopy for Cleared Tissue (ct-dSPIM)

ASI's Dual Selective Plane Illumination Microscopy for Cleared Tissue (ct-dSPIM) is one of many light sheet microscope configurations possible using our modular components. This flexible and easy-to-use Selective Plane Illumination Microscopy (SPIM) implementation allows for dual views of large samples.

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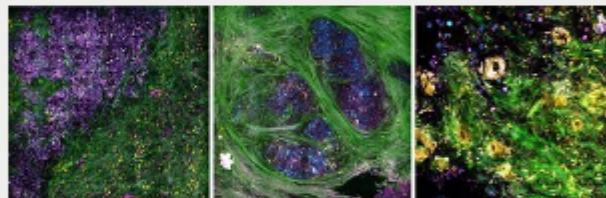
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In Case You Missed It

Label-Free System Images Molecular Features of Cancer Tissue in Real Time

A team at the University of Illinois at Urbana-Champaign has visualized the tumor microenvironment of human breast tissue shortly after it was surgically removed from a patient in the operating room, using a new portable optical imaging system.



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Molecular Imaging Emerges as a Cancer Surgery Tool

Molecular imaging has become an invaluable tool in cancer treatment. SPECT and PET are entering routine clinical use for preoperative imaging.

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Two Microscopy Techniques Combine for Nanoscale Brain-Wide Optical Imaging

Scientists from the Eric Betzig lab at Howard Hughes Medical Institute's Janelia Campus and the Ed Boyden Lab at MIT collaborated to develop an imaging technique that combines expansion microscopy with lattice light-sheet microscopy for nanoscale imaging of fly and mouse neuronal circuits at the molecular level.

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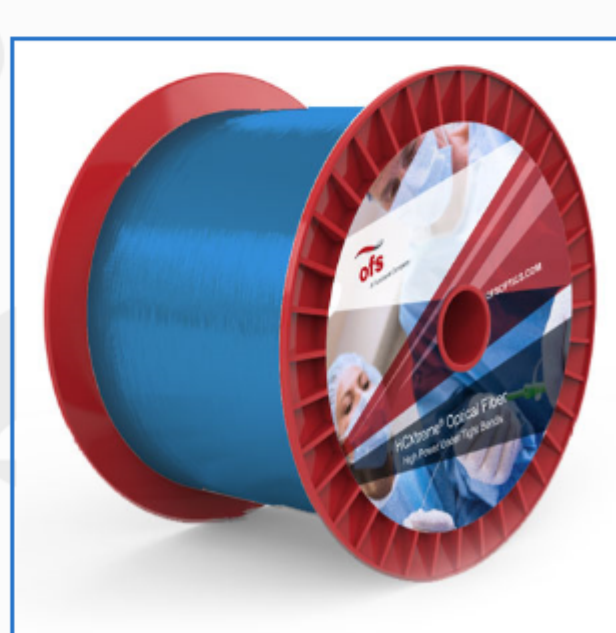
Webinars

In Vivo Medical Laser Procedures: An Overview

Thu, Mar 7, 2019 1:00 PM - 2:00 PM EST

This one-half hour webinar, presented by OFS, will provide an overview of current in vivo medical procedures performed using lasers and optical fibers, including procedures for neurology, ophthalmology, and cardiology. The presentation will begin with a brief history of laser-based medical applications. Speaker Jaehan Kim will describe the types of light-tissue interactions and discuss which wavelengths have been found most useful for different medical procedures. He will also touch on the use of high-power versus low-power lasers; the use and benefits of laser-based imaging applications; and the benefits of the Raman fiber laser, a potentially game-changing technology for medical laser applications.

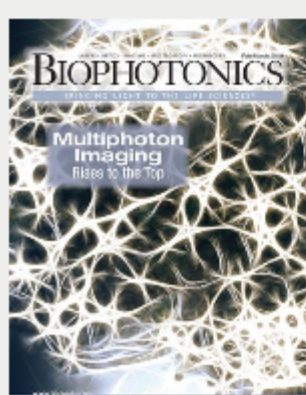
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