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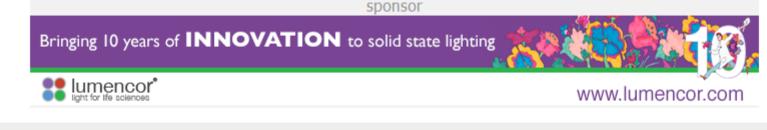








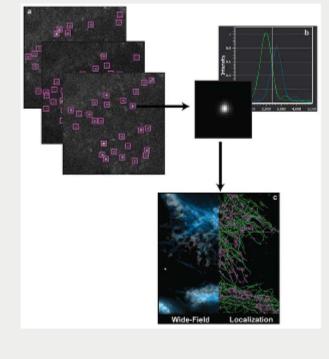
and product developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more. Manage your Photonics Media membership at Photonics.com/subscribe.



Microscopy Fluorescence microscopy has proven itself to be an indispensable method in the modern biological toolkit. The use of visible-wavelength

Single-Molecule Localization Blazes New Paths for

fluorophores allows for relatively noninvasive imaging. While the resolution of conventional optical microscopy cannot rival that of electron, atomic force or near-field scanning optical microscopy methods, the unrivaled specificity of the technique allows for the imaging of nearly any biological target.

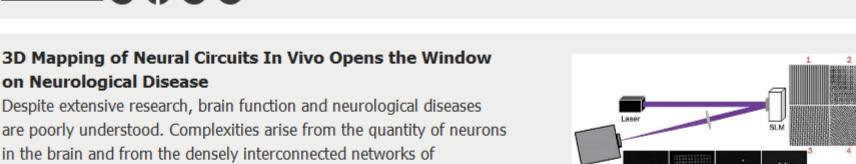








intermixed cell types. Tools neuroscientists have traditionally relied upon include the patch clamp, which probes electrical activity of a single neuron, and fMRI, which images activity in volumes containing



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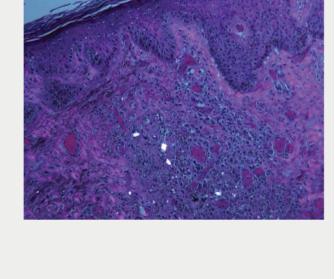






portrayal in popular TV crime and courtroom shows, forensic investigation remains a powerful tool for learning the truth about who may have committed various actions, where they occurred, and what tools or substances may have been used.

practitioners say their profession is far less glamorous than its



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Lumencor Inc. Lumencor's AURA light engine® is

Ideal OEM Illumination Platform

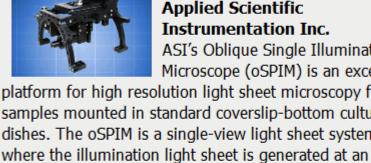
many as five light outputs in the UV, VIS and NIR yield independently addressable color bands and/or white light. Request Info Visit Website

a flexible platform for the brightest of solid-state light

sources, tailored to your instrument design need. As

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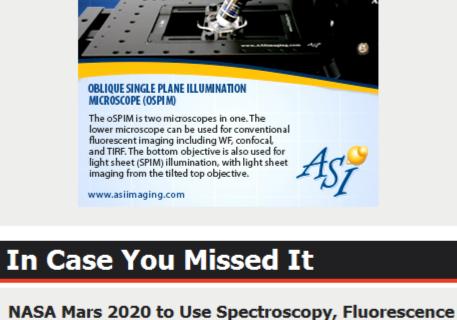


Instrumentation Inc. ASI's Oblique Single Illumination

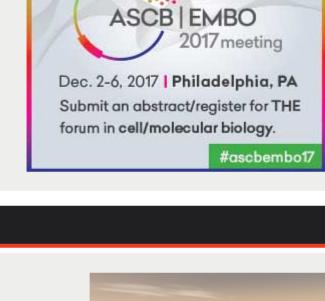
Light Sheet Microscopy (oSPIM)

Microscope (oSPIM) is an excellent platform for high resolution light sheet microscopy for samples mounted in standard coverslip-bottom culture dishes. The oSPIM is a single-view light sheet system

oblique angle using an oil immersion objective below the sample dish. Visit Website Request Info



which eliminates the need to mount samples or other special preparation and is capable of imaging freely moving living



on Earth.

Imaging in Biosignature Analysis

NASA's Mars 2020 mission, which will look for signs of past life on

Mars, will use smart methods originally developed to find the oldest life

Device Allows Standard Cameras to Produce Hyperspectral Images



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More Effective

A miniaturized hyperspectral device has been developed as an add-on for a standard camera and could be used to repurpose a camera for generating hyperspectral images and videos for a range of applications.

Webinars

Making Laser-Based Dermatologic Procedures Safer and

ultrasound in conjunction with a clinical laser for dermatologic

the skin, maintaining a safe environment for physician and patient throughout treatment. The ultrasound is applied throughout the

procedure to further improve effectiveness by increasing the

samples in real-time at speeds 10 to 100 times faster than current laser-scanning microscopes.

Thu, Nov 2, 2017 1:00 PM - 2:00 PM EDT This webinar will introduce sonoillumination, a technique that uses

procedures such as the removal of birthmarks and tattoos. Sonoillumination transmits laser light only through direct contact with

transmission of light through the epidermis by as much as 174 percent. The presenters will review current approaches to laser-based dermatological treatments, then will discuss sonoillumination, the experimental methods used to test the device, and results. Register Now Coming in November... Features 3D Medical Imaging; IIR Medical Imaging; Tunable Lasers; Cameras for Microscopy

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Issue Bonus Annual Imaging Sourcebook: Research, Market Report, Directory

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