Wednesday, November 30, 2016

BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES®

PHOTONICS MEDIA

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.

From the Editor's Desk

Fountain of Youth

JAMES SCHLETT, EDITOR

It wasn't that long ago when the biggest downside to laser facial rejuvenation was the significant recovery period after the procedure. In exchange for looking years younger, patients often had to brace for up to a month of uncomfortable recuperation. Cosmetic laser companies are now pushing the bounds of fractionated technology to further reduce costs and downtime, by introducing systems with multiple and new wavelengths as well as faster and more powerful picosecond and diode lasers.

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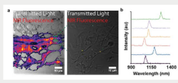
Hyperspectral Microscopy: A Powerful Technique for Multiplexed Imaging

The field of biomedical imaging represents the acquisition of images for diagnosis and treatment evaluation using various imaging techniques, such as MRI, ultrasound, x-ray, PET and more. In the past few years, nondestructive techniques based on optical imaging have grown in popularity, as this approach permits visualization of cells and molecules without requiring a biopsy or cell culture.



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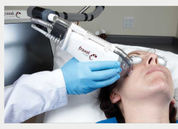
Facial Lasers' Future: Shorter Downtimes, Darker Skin Types

Picosecond lasers and the combination of fractional ablative and nonablative modalities are allowing cosmetic surgery technology companies to reduce downtime and open up laser facials to a broader demographic.



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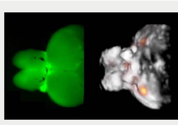
In Case You Missed It

Novel Optoacoustic Technique Reveals Deep Neural Activity

An optoacoustic tomography platform for imaging neural activation deep in the brain has enabled researchers to observe the activation of large neural circuits, currently up to the size of a small-animal brain, in real time and 3D.



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SfN 2016 Show Presents Emerging Science, Collaboration

The Society for Neuroscience (SfN) Neuroscience 2016 conference and 46th annual meeting provides a forum in which industry experts present emerging science, collaborate with peers, explore new tools and technologies, and advance careers.

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Lifeimage Adds Functionality to Its Image Exchange Platform

lifeIMAGE introduces release 5.0 of its medical image sharing technology which connects health care networks, providers and patients across the country.

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Featured Products

Expanded Alluxa Filter Catalog

Alluxa

Alluxa's online optical filter catalog showcases Alluxa's standard high performance narrowband and life sciences solutions. New ultra-narrow and life sciences filters are being added to the catalog each week.

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Ultra-Sensitive USB3 Camera

Lumenera Corporation

Lumenera's INFINITY3S-1UR is a high-speed, ultra-sensitive research grade microscopy camera with 1.4 megapixel resolution.

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Ultra Precise Piezo-Z Axis Stage

Applied Scientific Instrumentation Inc.

Applied Scientific Instrumentation's Ultra Precise Piezo-Z Focusing stage has been specifically designed to provide a high resolution, and highly repeatable, means of controlling the X, Y, and Z position of the microscope stage.

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Multispectral RGB+NIR

Teledyne DALSA, Machine Vision OEM Components

The Piranha4 quadlinear line scan camera features red, green and blue (RGB) outputs plus a Near Infrared (NIR) channel for multispectral imaging. Built around Teledyne DALSA's advanced CMOS image sensor design, its wafer-level dichroic filters enable spectrally independent RGB and NIR outputs.

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Cobolt Introduces 553 nm DPL Laser with Direct Modulation

Cobolt AB

Cobolt AB, Swedish manufacturer of high performance lasers, introduces a new wavelength of 553 nm on the Cobolt 06-01 Series of plug and play CW lasers.

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Sputtered Metal Deep-UV Interference Filters

Chroma Technology Corp.

Chroma Technology's sputtered metal UV interference filters offer the highest levels of Deep UV transmission of any UV metal coated filters available.

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Laurin Publishing Announces Poster Series

Photonics Media

Laurin Publishing Co., whose titles include Photonics Spectra and BioPhotonics magazines and the Photonics Buyers' Guide, announces the availability of two posters featuring art that takes a lighthearted look at the early days of the photonics industry.

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Lambda 421™ Pentagon Beam Combiner

SUTTER INSTRUMENT

The Lambda 421 Pentagon Beam Combiner is an exciting newly patented concept for combining separate light sources with different spectra into a single common output beam. Each separate light source is collimated and then admitted to the optical path through a bandpass filter.

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