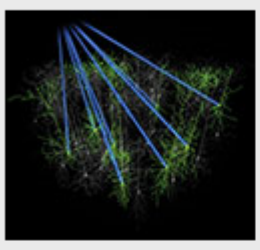
BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY

Wednesday, October 28, 2015

MPEF Microscopy Shines Best on Living Samples



Multiphoton excitation fluorescence (MPEF) microscopy, an optical imaging technology that's vital to the life sciences, is advancing as quickly as its applications. The technique is on track to transition to clinical uses within the next several years.

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In Vivo Neural Imaging — SLMs for Conducting 3D Holography inside Living Brains

Despite the critical role our brains play in perception, cognition and action, we know very little about how the brain actually accomplishes these feats. With the advent of new optical methods for probing neural networks, researchers have begun to untangle the neural web and shed new light on the mysteries of the brain.

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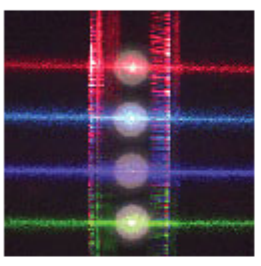
OPSLs — Unique Benefits Driving Growth in the Life Sciences



Optically pumped semiconductor laser (OPSL) technology dominates some of the leading applications for continuous wave (CW) and modulatable laser light, including those used for cytometry, sequencing, fluorescence microscopy and ophthalmological photocoagulation. OPSLs have rapidly transitioned from next-generation CW laser technology status to a dominant force within the life sciences.

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Reduced to the Essentials — Portable Imaging Gets High-Tech

Capable of providing streamlined access to medical data in real time, and with the ability to perform diagnostics in remote areas, portable imaging technologies for medical applications are of increasingly significant interest to medical practitioners and technology companies alike.

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Featured Products

Dual Inverted SPIM

Applied Scientific Instrumentation, Inc.

ASI has developed a new form of light sheet microscopy with our collaborators in the scientific community.

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New: INFINITY3S-1UR

Lumenera Corp.

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

More info >>

Fluorescence Lifetime Spectrometer

PicoQuant GmbH

The FluoTime 300 "EasyTau" is a fully automated and modular spectrometer for steady-state and time-resolved measurements.

More info >>

New Focus™ WM-1210 Wavemeter

Newport Corporation

The New Generation of Wavemeter is here.

More info >>

WHITE PAPER

How can I find the right digital camera for my microscopy application?

Basler AG

Nowadays, image processing is found in a wide range of optical microscopy applications. Examples for this are medical and biological research, diagnostics, testing of medicinal products, or material sciences. Microscopy cameras are an important component of these systems and the specific requirements of your application will drive the selection of the most suitable microscopy camera. You will learn the factors guiding the choice of color or monochrome cameras, and the functional differences and benefits of CCD and CMOS sensors, and of the various interfaces. Further, you will learn how sensor and pixel size, resolution and frame rates will influence your camera selection. Choose your microscopy camera wisely, to achieve optimal image quality, and to minimize system costs.

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