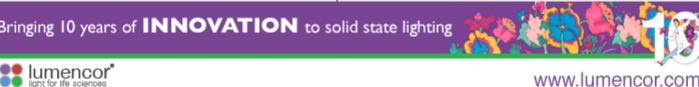
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#### Wednesday, June 25, 2014

#### Microscopy Light Sources Illuminate Research Biology



Research biology is changing, moving toward more complex experiments that combine imaging and traditional fluorescence with photostimulation and electrophysiology. As these new directions evolve, they require light sources that adapt on the fly, rapidly providing multiple wavelengths in a format that is programmable and tunable.

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# UXR -300BF Ceramic Xenon Lamps



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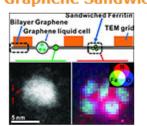
QCLs for Medicine: The Promise and the Payoff

**Laser Treatment Shows Promise for Skin Cancer** The treatment of basal-cell carcinoma with a new combination of lasers - pulsed dye and Nd:YAG - has yielded some good results, offering the potential for nonsurgical treatment.

Although hurdles remain, the promise of quantum cascade lasers in medicine moves closer to realization with the commercial introduction of a microscopy platform, demonstration of a

prototype device for breath analysis, and continued research and development.

# Graphene Sandwich Improves Biomolecule Imaging



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Atomic-level images of a biological molecule in its natural environment can now be obtained by sandwiching the wet sample between sheets of graphene. Graphene has an extraordinarily high thermal and electroconductivity, and is able to conduct away both the heat and the electrons generated as the electron microscope's beam passes through the sample.

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Looking for **Biophotonics** products? Search the Photonics Buyers' Guide or Browse these product categories:

**Ablation Laser Systems** General Compound Microscopes Biomedical Laser Systems

Microscope Illumination Systems <u>Microscope Lenses</u>

<u>Spectrofluorometers</u>

# **SERS Technique Diagnoses Meningitis**

A new laser-based test uses nanoparticles to speed up the diagnosis and treatment of bacterial meningitis, a disease that can lead to blood poisoning and brain damage if not discovered quickly.

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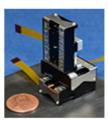


## Biophotonics Products

#### CTL - Continuously Tunable Laser

Toptica Photonics TOPTICA introduces a new family of Continuously Tunable Lasers! High power, narrow linewidth and high absolute and relative wavelength accuracy help you perform wide scans with the

highest resolution. More info >>



## **USB Micro Stage**

New Scale Technologies, Inc. The M3-LS Linear Smart Stage has 0.5 µm resolution with absolute encoding. The 29 x 20 x 10 mm piezo stage needs no

external controller. More info >>





#### Laser Scanner Applied Scientific

Instrumentation, Inc. The Fiber-Coupled Laser Scanner by Applied Scientific Instrumentation is a 2-D galvo unit designed for generating SPIM

(selective plane illumination microscopy) light sheets.

More info >>



## CMOS Camera

Hamamatsu Photonics UK Ltd. Hamamatsu Photonics has introduced the ORCA-Flash4.0 scientific CMOS camera.

More info >>

# **OBLIQUE SINGLE PLANE ILLUMINATION** MICROSCOPE (OSPIM) The oSPIM is two microscopes in one. The lower microscope can be used for conventional fluorescent imaging including WF, confocal. and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet imaging from the tilted top objective. www.asiimaging.com



## Industry Events

**dicroscopy & Microanalysis 2014** - August 3 – 7, 2014 · Hartford, CT



Symposium includes: the Instrumentation & Techniques Symposia, the Biological Sciences Symposia, and the Physical Sciences Symposia. More info >>

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