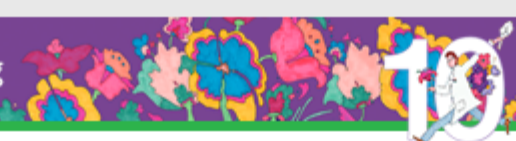


sponsor

Bringing 10 years of **INNOVATION** to solid state lighting



**lumencor**  
light for life sciences

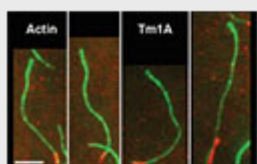
[www.lumencor.com](http://www.lumencor.com)

# BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

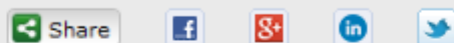
Wednesday, September 23, 2015

## Multiwavelength TIRF Microscopy Enables Insight into Actin Filaments



Researchers at the University of California, San Francisco are combining multiple laser excitation wavelengths in total internal reflection fluorescence (TIRF) microscopy to investigate the binding dynamics of individual actin filaments.

[Read Article >>](#)



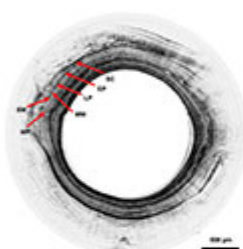
## Using QCLs for MIR-Based Spectral Imaging – Applications in Tissue Pathology

A quantum cascade laser (QCL) microscope allows for fast data acquisition, real-time chemical imaging and the ability to collect only spectral frequencies of interest. Due to their high-quality, highly tunable illumination characteristics and excellent signal-to-noise performance, QCLs are paving the way for the next generation of mid-infrared imaging methodologies.

[Read Article >>](#)



## Supercontinuum Sources Enhance UHR-OCT Methods



Ultrahigh-resolution optical coherence tomography (UHR-OCT) enables micron-scale, cross-sectional and 3D-imaging capabilities. Supercontinuum sources offer the necessary optical bandwidths, spatial coherence and optical power densities — all of which are key UHR-OCT parameters. Within the biomedical world, such imaging techniques are relevant for robust tissue analysis.

[Read Article >>](#)



## Sterilization Effects on Optical Fibers for Clinical Use

Optical fibers have a broad range of uses in medical and clinical applications and can be adapted for many invasive and noninvasive procedures. However, any optical fiber to be used inside a human body first must be sterilized. This article reports on a study that examined the effects of six common sterilization methods on optical fibers with different coatings.


[Read Article >>](#)



## Featured Products



**New Focus™ WM-1210 Wavemeter**  
Newport Corporation  
The New Generation of Wavemeter is here.  
[More info >>](#)



**SPECTRA X Light Engine**  
Lumencor, Inc.  
The SPECTRA X light engine from Lumencor is the ultimate integrated solid-state excitation source for fluorescence microscopy.  
[More info >>](#)



**EVolutionary Step for Spectroscopy!**  
Avantes BV  
We are taking the next EVolutionary step for spectroscopy: the Avaspec ULS2048L-EVO; more speed, more memory!  
[More info >>](#)



**Dual Inverted SPIM**  
Applied Scientific Instrumentation, Inc.  
ASI has developed a new form of light sheet microscopy with our collaborators in the scientific community.  
[More info >>](#)




**Violet 405nm Laser**  
Necsel  
Necsel introduces the newest wavelength to their NovaLum product line: 405nm.  
[More info >>](#)



**Sub-miniature Resonant Scanner**  
Electro-Optical Products Corp.  
The fixed frequency resonant optical scanner deflects a light beam with a continuous sinusoidal motion.  
[More info >>](#)

## Industry Events



**Vision in Life Sciences Conference 2015** - November 19, 2015 · San Diego, Calif.  
This inaugural one-day event will enable you to get a deeper understanding of the technologies that are integral in the life sciences. Organizations involved in this field are using CCD or CMOS sensors, microscopes, lighting, filters and software to process data to allow their devices and tools to fulfill their purposes.  
[More info >>](#)

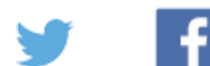
## CALL FOR ARTICLES!



Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *BioPhotonics*. Please submit an informal 100-word abstract to Editor Rodd Pedrotti at [Rodd.Pedrotti@Photonics.com](mailto:Rodd.Pedrotti@Photonics.com)

**PHOTONICS MEDIA**

THE PULSE OF THE INDUSTRY



sponsor

## AvaSpec-HERO ...



sponsor

## UXR-300BF Ceramic Xenon Lamps

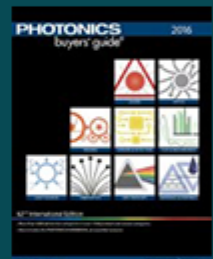
For scientific, medical & industrial illumination applications




## PHOTONICS buyers' guide

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

- [Fluorescence Imaging Systems](#)
- [Image Analysis Software](#)
- [Laser Safety Equipment](#)
- [Laser Safety Eyewear](#)
- [Biomedical Laser Systems](#)
- [Raman Spectrometer](#)
- [Laser Systems](#)



sponsor



**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.

**ASI**

[www.asiimaging.com](http://www.asiimaging.com)

sponsor



**TOPTICA PHOTONICS**

**iChrome CLE**  
Economic 4-color laser engine

sponsor



**THE LEADING LIGHT BUY TICKET NOW**

**JUNE 26-29, 2017, MESSE MÜNCHEN**

**LASER of PHOTONICS**

Questions: [pr@photonics.com](mailto:pr@photonics.com)

Unsubscribe: <http://www.photonics.com/Newsletter/EmailUnsubscribe.aspx>

[Subscribe](#) | [Manage Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)