BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

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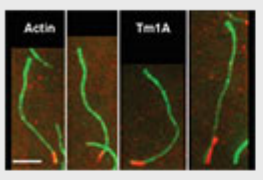
Wednesday, September 23, 2015

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.

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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.

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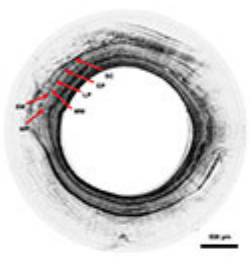
Supercontinuum Sources Enhance UHR-OCT Methods



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.

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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.

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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.

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