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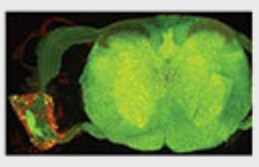
Wednesday, January 27, 2016

LEDS in Biology Research: From Microscopy to Optogenetics



Since LEDs were introduced to microscopy illumination in bioscience research, convincing research groups and imaging facilities of their scope and potential has been challenging. But with the recent introduction of full spectrum light units and more advanced systems, LED illumination is becoming the new standard.

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Surgical Lasers Make the Cut

In surgery, the best cut is often the smallest. Because they enable precision targeting and can minimize tissue trauma, lasers offer an advantage in surgery. What's more, they can deliver healing light, thereby widening treatment possibilities. But to win wider acceptance and greater use, laser surgery systems need to cost less while being more versatile and user-friendly.

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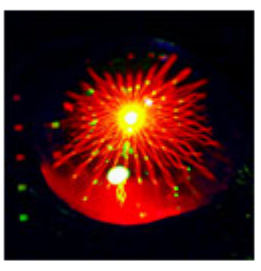
Calibration Sharpens Superresolution Microscopes



Superresolution microscopes can be made even sharper with arrays of nanoscale apertures that compensate for optical aberrations more effectively than previous techniques. The arrays allow for more accurate tracking of individual molecules in 3D, according to researchers at Stanford University.

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Microscopy: Key Considerations for Nonlaser Light Sources

Metal halide and LED light sources are changing the illumination landscape in microscopy. Brighter, easier to use and growing in application, they are driving new options in fluorescence, conventional bright-field and other contrast techniques.

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Featured Products

Ultra Series Filters

Alluxa

Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today.

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New EVO Series

Avantes BV

Avaspec ULS2048L-EVO; more speed, more memory! Avantes, leading innovator in the field of spectroscopy, now offers the first instrument in the new EVO series: the AvaSpec-ULS2048L-EVO.

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Customize Your Laser Wavelengths

Necsel

Necsel enables the OEM higher levels of integration with our product line of compact high power low cost lasers.

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LIDA Light Engine

Lumencor, Inc.

Lumencor's LIDA light engine® works hand-in-hand with the latest monochrome cameras to generate RGB color transmitted light images with unprecedented sensitivity, spatial resolution, speed and color fidelity.

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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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TOPTICA Photonics, Inc.

A multitude of nonlinear photonic methods are only feasible with the use of femtosecond laser pulses.

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Color-Switching Light Source

Excelitas Technologies Corp.

New X-Cite® TURBO is a powerful, color-switching light source for fluorescence imaging applications.

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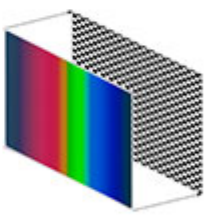

Variable Bandpass Filters

Delta Optical Thin Film A/S

Delta Optical Thin Film A/S has announced custom linear variable bandpass filters for midsize and full-frame CCD and CMOS sensors.

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