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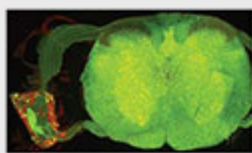
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# BIOPHOTONICS

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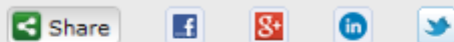
Wednesday, January 27, 2016

## 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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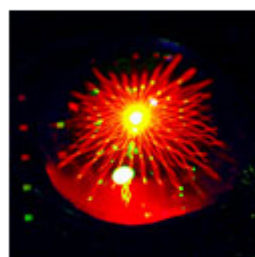
## Surgical Lasers Make the Cut

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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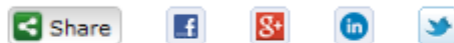


## Calibration Sharpens Superresolution Microscopes



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.

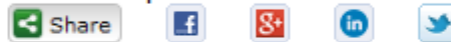
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## Microscopy: Key Considerations for Nonlaser Light Sources

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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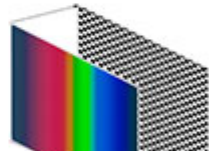
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### Color-Switching Light Source

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

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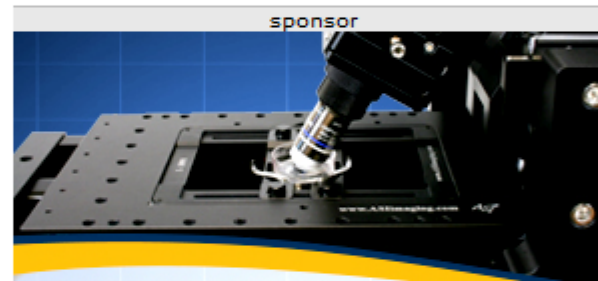
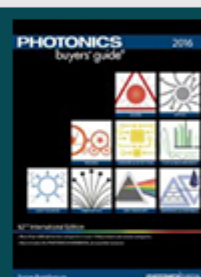


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