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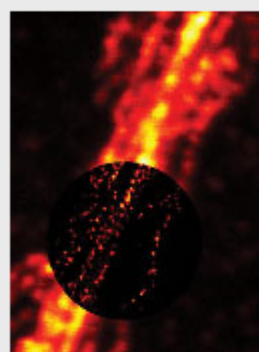
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# BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

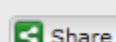
Monday, December 22, 2014

## Top Biophotonics Stories of 2014



The brain is having a big year. At the end of September, the National Photonics Initiative launched the Photonics Industry Neuroscience Group, an industry consortium that includes several well-known photonics companies. The industry leaders plan to invest upwards of \$30 million for photonics R&D in support of the White House's BRAIN Initiative. Targeted technologies include: imaging optics, laser sources, automated scanning technology and high-resolution cameras; miniature microscopes for therapeutic screening; fluorescent-protein engineering technology; and automated software for detailed mapping of the human brain.

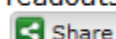
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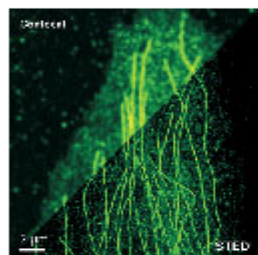
## Global-Shutter vs. Rolling-Shutter Readouts

New sCMOS cameras overcome rolling-shutter artifacts by combining the best of both global and rolling shutters to achieve the simultaneous exposure with all rows, all while maintaining the frame rate and low noise benefits of rolling-shutter readouts.

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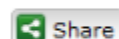


## STED Microscopy Made Easy



Stimulated emission depletion microscopy surpasses diffraction-limited microscopy by offering much more information about structures. Combining STED with time-tagged data acquisition methods makes even more information available.

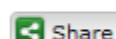
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## Collaboration Advances Intraoperative Assessment of Tumor Margins

Using biophotonics to delineate tumor margins was the focus of a recent consortium of medical and business professionals.

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## Biophotonics Products



### RGB Matrix Laser

**Necsel**  
The Matrix RGB from Necsel IP offers 250 and 700 lumen brightness levels and combines red, green and blue lasers into 400 μm fiber coupling.

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### Lasers for Biotech

**LaserGlow Technologies**  
LaserGlow Technologies provides lasers for fluorescence microscopy, optogenetics, photoactivation, interferometry, biomedical holography, etc.

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### Adjustable Fiber Collimators

**Micro Laser Systems, Inc.**  
Micro Laser Systems Inc. has introduced 2-μm adjustable fiber collimators for wavelengths from 1500 to 2300 nm.

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### Fluorescence Illumination

**Excelitas Technologies Corp.**  
The X-Cite 110-LED by Excelitas Technologies is a compact, white LED light source designed for fluorescence imaging applications.

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## Industry Events

**BiOS 2015** - February 7-12, 2015 · San Francisco, CA



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