BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES®













developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more.

From the Editor's Desk



JAMES SCHLETT, EDITOR

Power, Price and Portability

Power is not everything. If it costs too much, too few may wield it. And if it restricts freedom, it will only be tolerated for

so long. This is especially true in the years-old competition between lasers and LEDs. These photonics technologies have vied to be light sources in many applications, and brain research is emerging to be a major battleground for them.

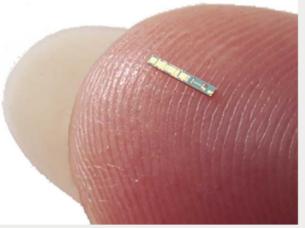




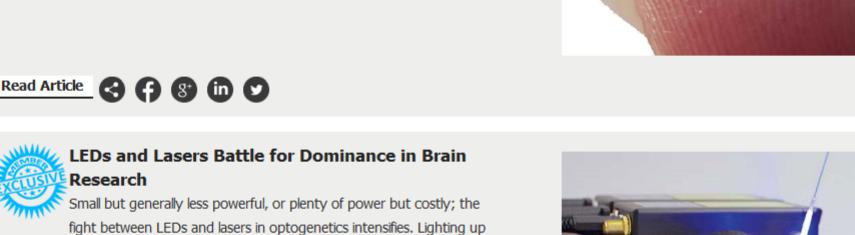


Swept Source OCT Takes Optical Medical Imaging to the Next Level

Swept source optical coherence tomography enables much faster imaging for comprehensive wide-field, 4D screening of large organs or dynamic processes.







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diameter

producing a dynamic picture of the brain.





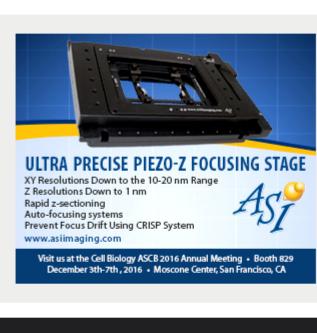


the brain to better understand, treat or even cure brain disorders has become an

established field known as optogenetics. Today it is one of the most promising tools making contributions to the Brain Research through Advancing Innovative

Neurotechnologies (BRAIN) Initiative — part of a new federal focus aimed at







AFL

As microscopy techniques become more complex and require researchers to keep specimens under objectives for longer periods, microenvironmental control systems play an important role in pushing the limits of live-cell imaging.

Live-Cell Imaging Thrives With Microenvironment Control

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A handheld device capable of capturing images of a retina with cellular resolution allows researchers to gather detailed structural information

Systems





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Concordia's Photodynamic Therapy Laser Receives Premarket Approval Concordia International Corp. said that the U.S. Food and Drug Administration has approved the Company's premarket approval application

sponsors



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for its Photofrin 630 PDT (photodynamic therapy) Laser.



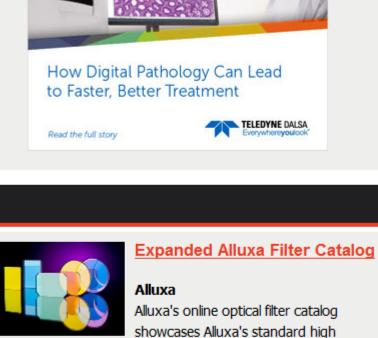
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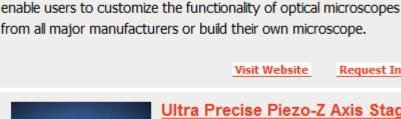
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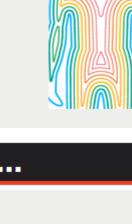
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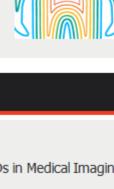
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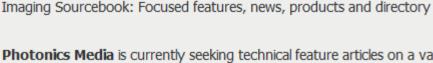
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